

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

1933·VEGETABLES·SEEDS·FLOWERS·1933



OFFICES AND
WAREHOUSE

EAST FIRST AND ALDER

VEGETABLE
SEED TRIALS
HORTICULTURE

PORTLAND
SEED
COMPANY

ESTABLISHED
SINCE 1893

PORTLAND, OREGON

JAN 17 1933

PORTLAND SEED COMPANY PORTLAND, OREGON

Dear Customer:

There is nothing quite so satisfying as a well planned, vigorous growing productive flower or vegetable garden. The seeds that you plant have a lot to do with your garden success. This is why so many people are so partial to DIAMOND QUALITY seeds. They produce bountiful crops.

In sending you this our 40th Annual Catalog, we do so with the wish that you will again select the seed and plan your garden from its pages. This year you will find prices lower, many 5c packets, which we know will be good news to our thousands of customers. We have added many seed dealers to our list so that perhaps your local dealer will have DIAMOND QUALITY seeds displayed as shown on our back cover. His seeds are fresh, his prices are right. Of course if he hasn't DIAMOND QUALITY seeds, we will be glad to have you send your list direct to us as you have in the past. We will do our part by filling your order the same day it is received. Send Money Order if possible. Application blanks and envelopes enclosed for your convenience.

Yours truly,
PORTLAND SEED COMPANY

"BETTER BE SAFE THAN SORRY" is a thought that should govern you in selecting your seeds for your 1933 plantings.

Your investment in land, preparing seed bed, fertilizer and later cultivation is large in comparison to your seed cost, therefore, plant only seeds that your past experience has proven to be satisfactory.

Here are some of the reasons why we think you should continue planting Diamond Quality seeds.

They are selected from crops grown from parent stocks of proven pure bred quality.

These crops are grown under ideal conditions for producing hardy, vigorous growing seed.

Men with many years of practical experience "who know their stuff" watch the growth and "rogue" out every plant that shows the least "off color." When the harvest time comes none but pure stock seeds are left for the harvester.

They are then sent through our modern cleaning plant with the result that your Diamond Quality seeds will come to you with an assurance back of them that they will produce a bountiful crop for you if other conditions are favorable.

PORTLAND SEED COMPANY'S GUARANTEE

Diamond Quality Seeds, bulbs and nursery stocks are guaranteed as to vitality and purity, but we give no warranty, expressed or implied, as to description or productiveness, neither will we be held responsible for the crop nor liable for more than the amount paid us for the seeds, bulbs or nursery stock should they fail to grow, we to replace or refund at our option.

★ JAN 26 1933 ★

ASPARAGUS

CULTURE

Plant roots in well drained soil about 2 feet apart in the row and about 5 to 6 feet between rows. The seed germinates very slowly and should be planted early in a well prepared seed bed.

Asparagus can be produced very easily and cheaply and is a profitable market crop. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for the average family.

GIANT WASHINGTON. The genuine rust resistant strain, stalks long, rich dark green, thick and heavy, of excellent tender quality.

MARY WASHINGTON. A special selection of Giant Washington. Somewhat earlier and larger but equally resistant to rust.

Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25, postpaid.

ARTICHOKE SEED

GREEN GLOBE. Medium height plants. Edible bud scales are broad, thick, deep green. Transplant 2 foot rows 4 feet apart. Pkt. 10c; oz. 75c postpaid.

JERUSALEM WHITE ARTICHOKE. A fine table variety. Tubers planted and cultivated same as potatoes. An excellent winter hog feed which they harvest themselves. An acre will keep 20 to 30 hogs. Also a valuable cow feed.

10 lbs. for \$1.00 postpaid. Write for quantity prices.

CLIMBING or POLE BEANS

CULTURE

Plant about May 1st or as soon as the ground becomes warm. Cover from 1½ to 3 inches deep according to weather conditions.

All varieties of Beans on this page (except as noted), pkt. 10c; ½ lb. 20c; 1 lb. 30c; 10 lbs. \$2.75 postpaid.

P. S. CO. OREGON GIANT GREENPOD. Large, fleshy pods 10 to 12 inches long, stringless, light greenish yellow splashed with red. Yields heavy. Excellent for home garden and canning.

Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 10 lbs. \$3.25 postpaid.

SCARLET RUNNER. A favorite either for shell or flowering. Flowers are bright scarlet. Pods well filled with broad, kidney-shaped beans.

OREGON POLE LIMA. Proven over many years to be well adapted to our cool Northwest climate. A strong, vigorous grower, bearing continuously until frost. Pods are at their best when turning yellow.

KENTUCKY WONDER. The most popular of all early greenpod pole beans. An early, prolific, vigorous climber. Fleshy, fine grained, almost stringless pods, grow in clusters almost 10 inches long. Either snap or green shelled.

LAZY WIFE. One of the best later green podded pole beans for snaps or green shell use. Pods 4 to 5 inches in length. Dark green, thick, fleshy and stringless. Borne in large clusters. When young they have a rich buttery flavor. The dried beans are pure white and oval shaped. Excellent for winter use.

KENTUCKY WONDER WAX. Very early. Starts bearing when scarcely higher than a bush bean and continues until frosts. Pods are long, crumpled, creamy yellow, very fleshy, practically stringless. Rich in flavor.

NEW GUINEA BUTTER BEAN. Can be used as arbor covering and table covering as well. Fruits grow to be several feet in length. Use while young for the table.

Pkt. 10c; oz. 30c postpaid.

Green Podded Varieties

DWARF HORTICULTURAL OR CRANBERRY BEAN. One of the best dwarf green shelled beans. Pods are 5 or 6 inches long, broad, thick, curved, with splashes of bright red on yellowish ground. Beans large and easily shelled. Fine for succotash.

STRINGLESS REFUGEE. An improved late, heavy cropper. Pods round, 5½ inches long, light green, fleshy, fine grained, delicious and tender. A splendid variety for snap and canning.



STRINGLESS
GREEN
POD

STRINGLESS GREENPOD. Two weeks earlier than other green pod beans. Pods 5 or 6 inches long, round, fleshy, crisp and tender.

BROAD WINDSOR. A very hardy variety. Can be planted much earlier than other bush varieties. Pods large, broad and flat. One of the best early green shelled beans.

TREE BEAN. Heavy yielder, ripens early, foliage scant. Seed white, rounded form. Most desirable bean for Northwestern growers.

BUSH or DWARF BEANS

Yellow Podded Varieties

P. S. CO.'S STRINGLESS WAX. The best early dwarf wax podded variety. Pods golden yellow, entirely stringless. Growth, size and shape same as Stringless Greenpod.

Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 10 lbs. \$3.00 postpaid.

PENCIL POD BLACK WAX. One of the best black seed, round pod varieties. Pods 6½ to 7 inches, straight, fleshy, light golden, brittle, tender, stringless. Very popular for home and market gardens.

GOLDEN WAX. One of the old standby varieties, vigorous and highly productive. Reaches table condition in 50 days. Pods deep golden, about 5 inches. Broad, oval, stringless, tender and of fine quality. Cooks quickly as a snap bean. Shells well when green.

DAVIS WAX. Hardy and productive. Pods long, rust resistant and very tender. The dry, white, kidney-shaped beans are fine for baking.

BEETS—Diamond Quality

Beets are hardy and may be planted soon as ground can be well prepared. Sow in rows 18 to 24 inches apart. Thin table beets 3 to 4 inches apart. Mangels 8 to 12 inches apart.

All varieties of Beets on this page (except as noted)
Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c postpaid.

PORTLAND SEED CO.'S MARKET GARDENER. Extra early and remarkable for its fine quality and rapid growth. Tops small; roots deep red, globe shaped; flesh dark red, fine grained and tender. Market gardeners prefer it because it matures evenly, stands a long time and does not split.

Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00 postpaid.

DETROIT DARK RED. One of the very best for home gardens. Tops small, upright. Roots deep red, globe shaped, with small tap root. An excellent canning variety as well.



P. S. CO.'S MARKET GARDENER BEET

All varieties of Beets on this page (except as noted)
Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c postpaid.

EXTRA EARLY EGYPTIAN. One of the best for forcing. Tops small. Roots dark red, rounded top, flat on bottom, with very small tap root. Flesh sweet and tender.

IMPROVED BLOOD TURNIP BEET. Tops large. Roots dark red and nearly round. Flesh deep red with lighter zoning, sweet, crisp and tender. Recommended for summer and fall use.

EARLY ECLIPSE. Uniform globe shape. Flesh fine grained, crimson, with pinkish white zones. Crisp and tender.

SUGAR BEETS

KLEIN WANZLEBEN. Best variety for sugar. Is also used for stock. Good yielder.

WHITE FRENCH or VILMORIN'S IMPROVED SUGAR. Most generally grown for stock, as it contains a heavy sugar yield.

MANGEL WURZEL

All varieties of Mangels on this page (except as noted)
Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 50c; 10 lbs. \$4.75 postpaid.

YELLOW GIANT INTERMEDIATE OR GATE POST. Roots large, growing more than half out of the ground. Flesh white, sweet and tender.

DANISH SLUDSTRUP. Roots long, reddish yellow, growing well above the ground.

NEW HALF SUGAR MANGEL. Double the yield of sugar beets. Roots large, smooth, cream white and few rootlets. Tops medium sized. A desirable stock food.

GOLDEN TANKARD. Especially recommended for dairy cows and sheep. Tops small. Roots large, oval, easily harvested. Flesh deep golden yellow.

PORTLAND SEED CO.'S HEAVIEST CROPPER. One of the largest yellow mangels, easily pulled, as it grows two-thirds above ground. Small tops permit of close planting. A heavy acreage yielder.

Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 60c; 10 lbs. \$5.50 postpaid.

SWISS CHARD

LUCULLUS. Grows about 2½ feet high. Stalks are heavy, over an inch thick. Leaves make the finest greens. Mid-ribs may be prepared like asparagus.
Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c postpaid.

BRUSSELS SPROUTS

DWARF IMPROVED. A very hardy variety. Sprouts large, round and compact, of very good quality. One ounce sows 500 feet. Pkt. 10c; oz. 30c; ¼ lb. 90c postpaid.

CHIVES

Chives belong to the onion family, and the tops are used green for flavoring and garnishing. They grow in little clumps and can be supplied as plants any time in the early spring. Pkt. 10c; ¼ oz. 80c; oz. \$2.50 postpaid.

CRESS

TRUE WATER CRESS. A distinct variety of cress with small, oval leaves. Grown easily in shallow ponds or along the edges of shallow streams of running water. Pkt. 10c; oz. 45c; ¼ lb. \$1.50 postpaid.

CURLED or PEPPER GRASS. This salad is used with lettuce. The leaves are much frilled or curled. Sow thickly in drills. Pkt. 10c; oz. 15c; ¼ lb. 45c postpaid.

CABBAGE

CULTURE

Early varieties should be started in cold frames during January or February and transplanted to open ground as soon as weather and soil conditions permit. When winters are not severe they may be sown and transplanted the fall previous.

Late varieties may be sown from middle to late spring, transplanting when 4 to 6 inches high.

All varieties of Cabbage Seed on this page (except as noted) Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50 postpaid.

DANISH BALLHEAD. The solid, round heads are famous for their keeping qualities. Matures late. When cut shows a fine, hard, snowy white head.

DANISH ROUNDHEAD. Ball shaped head, few outer leaves, very hardy. Late keeper. Excellent for early spring market.

GOLDEN ACRE. An improved strain of Copenhagen Market, producing earlier with smaller but more compact heads. Is very hardy. Will stand in field a long time and a good shipper. Few outer leaves.

EARLY JERSEY WAKEFIELD. A favorite with market gardeners. A sure header. Very hardy. Heads large, solid, with few outside leaves.

Pkt. 5c; oz. 20c; ¼ lb. 75c; 1 lb. \$2.50 postpaid.

COPENHAGEN MARKET. A splendid cabbage for the home garden. Heads early, globe shaped, slightly flattened, large, solid, with few outer leaves. Keeps well. A good shipper.

ODENSE MARKET. Red. A pickling cabbage.

STEIN'S EARLY DWARF FLAT DUTCH. Grows low on stems. Heads firm, fine grained, tender and excellent flavor. Pkt. 5c; oz. 20c; ¼ lb. 75c; 1 lb. \$2.50 postpaid.

PREMIUM LATE FLAT DUTCH. Heads large, flattened on top, closely wrapped and very solid. Keeps well in storage. Makes good sauerkraut.

Pkt. 5c; oz. 20c; ¼ lb. 75c; 1 lb. \$2.50 postpaid.

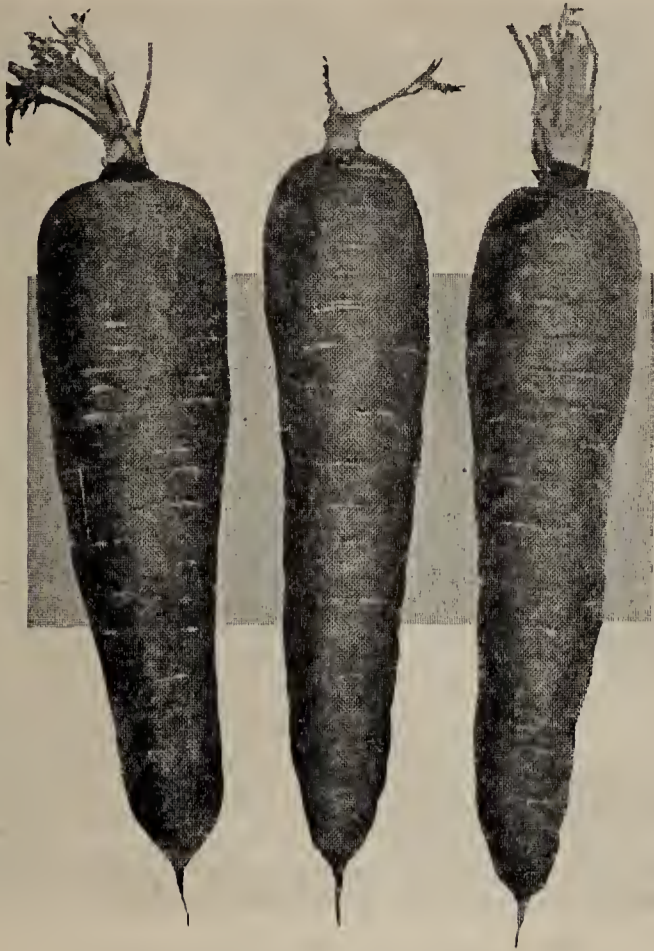
SAVOY. Large, compact heads. Crisp, tender, with rich flavor. Makes a fine salad.

CHINESE IMPROVED or PE TSAI. Sometimes called celery cabbage. Leaves large, of light green color. Inside leaves or stalks and heart are pure white and tender. Very mild and pleasant flavor served as a salad or cooked. Sow after July 1st.

Pkt. 10c; oz. 35c; ¼ lb. 85c; 1 lb. \$3.00 postpaid.

EVERGREEN WILL PROTECT THE BEAUTY
OF YOUR GARDEN.

CABBAGE PLANTS IN SEASON. SEE PAGE 31.



DANVERS HALF LONG

CARROTS

CULTURE

May be sown as early as soil and weather conditions permit or as late as June. May planting will miss many of the spring weeds. Cover $\frac{1}{2}$ to 1 inch deep according to weather conditions.

All varieties of Carrots on this page (except as noted)
Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. 90c postpaid.

PORTLAND SEED CO.'S NEW CORELESS. Larger than other varieties, crisp, solid, fine flavor. Grows smooth and uniform. A true stump-rooted type. Holds its color. Cooks quickly.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00 postpaid.

DANVERS HALF LONG. A fine quality carrot of uniform size and shape. Flesh deep orange, sweet, crisp and tender.

IMPROVED LONG ORANGE. Does well on deep soils. Often grows 12 inches long, 3 inches at the crown, tapering to a point. The tender young roots are suitable for table use. Good for stock feeding when mature.

CHANTENAY. Half long, well adapted for home garden use. Roots smooth, deep orange, red, about $5\frac{1}{2}$ inches. Crisp, tender and fine flavored for table use in early maturity. A heavy cropper when grown for stock.

OXHEART. Adapted to clay soils. A heavy yielder. Stubby roots, 5 or 6 inches long. Flesh bright orange, tender, fine grained. Table use when young. Stock when mature.

EARLY SCARLET HORN. For early outdoor planting. Roots top shape, 3 inches in length, orange red color.

Stock Carrots

PORTLAND SEED CO.'S YELLOW GIANT. Adapted to wet, heavy soils. Roots half long, broad shoulder, growing half out of the ground. Color bright yellow. Producing a heavy crop; most excellent for dairy cows.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00 postpaid.

LARGE WHITE BELGIAN. One of the oldest and best known stock carrots. Roots 12 inches and longer, producing a heavy yield of good quality.

MASTODON. Improved short white. Roots smooth, very heavy at shoulder, tapering. A heavy producing field carrot.

WE RECOMMEND RED STEER FERTILIZERS FOR THE VEGETABLE GARDEN AND FARM CROPS

Red Steer 3-10-7 for lettuce.

Red Steer 3-10-10 for garden use.

Red Steer 4-7-6 for potatoes.

Red Steer 5-7-8 for berries.

CAULIFLOWER PLANTS IN SEASON. SEE PAGE 31.

BROCCOLI

ITALIAN GREEN SPROUTING BROCCOLI. Entirely different from heading sorts. Bears a succession of edible sprouting heads. If kept cut will be replaced by others. Sprouts about 5 inches long, terminate in small head of deep green buds. Culture same as for cabbage.
Pkt. 10c; $\frac{1}{4}$ oz. 30c; 1 oz. \$1.00; $\frac{1}{4}$ lb. \$3.00 postpaid.

ST. VALENTINE. Matures in February. Heads large, solid, white, remaining in good condition longer than other varieties.

Pkt. 10c; oz. \$1.00; $\frac{1}{4}$ lb. \$3.75; 1 lb. \$12.00 postpaid.

EARLY LARGE WHITE FRENCH. Very hardy. Heads large, white, compact.

Pkt. 10c; oz. 90c; $\frac{1}{4}$ lb. \$3.00 postpaid.

CAULIFLOWER

CULTURE

Early and late varieties require the same culture as early and late cabbage. As soon as heads are large enough to be exposed to the light, tie or bind the leaves carefully over the heads to keep the light away.

PORTLAND SEED CO.'S MT. HOOD SNOWBALL. A fine early variety, recommended for early or late planting, producing uniform medium-sized, pure white, fine quality heads.

Pkt. 10c; $\frac{1}{4}$ oz. 75c; 1 oz. \$2.50; $\frac{1}{4}$ lb. \$8.00 postpaid.

DANISH GIANT. Dry weather, early, large, solid, white, that will successfully withstand a lot of dry weather.

Pkt. 10c; $\frac{1}{4}$ oz. 60c; 1 oz. \$2.00; $\frac{1}{4}$ lb. \$5.00 postpaid.

EARLY SNOWBALL. Adapted to forcing as well as outdoor planting. Plants compact, producing medium to large, rounded heads, pure white when blanched.

Pkt. 10c; $\frac{1}{4}$ oz. 60c; 1 oz. \$2.00; $\frac{1}{4}$ lb. \$5.00 postpaid.

LARGE ALGIERS. A valuable late sort, sure head. Plants large, upright, leaves protect head against frost. The very best of the late varieties.

Pkt. 10c; $\frac{1}{4}$ oz. 50c; 1 oz. \$1.25; $\frac{1}{4}$ lb. \$4.00 postpaid.

AUTUMN GIANT. A late variety, with long stems and dark green leaves. Heads white, large, compact.

Pkt. 10c; $\frac{1}{2}$ oz. 60c; 1 oz. \$1.00; $\frac{1}{4}$ lb. \$3.25 postpaid.



P. S. CO.'S MOUNT HOOD SNOWBALL

CHICORY

LARGE ROOTED. The roots, dug in the fall, dried, cut in thin slices and ground, are used as a substitute for coffee. Sow quite thinly in shallow drills in the spring. When well started, thin out to stand 2 or 3 inches apart in the row.

Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 50c postpaid.

WITLOOF. The leaves and leaf-stems of this variety are blanched and are used as a salad, like endive or cos lettuce.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 75c postpaid.

CELERIAC—Turnip-Rooted Celery

LARGE, SMOOTH PRAGUE. Improved form, with very few side roots. The largest and best variety.
Pkt. 10c; oz. 25c; ¼ lb. 75c postpaid.

CELERY CULTURE

Sow seed in hot bed or cold frame in early spring. Transplant when 3 inches high. Better plants are produced if plants are transplanted again when about 6 inches high.

GOLDEN SELF BLANCHING. One of the best early spring varieties. Stalks mature a beautiful golden yellow, which easily blanch to creamy white.
Pkt. 10c; oz. 50c; ¼ lb. \$1.75, postpaid.

GOLDEN PLUME. Superior quality, vigorous growing. A favorite with home gardeners. Semi-dwarf in habit. Stalks are brittle, blanch quickly. Fine flavor.
Pkt. 10c; oz. 75c; ¼ lb. \$2.25 postpaid.

WHITE PLUME. Earliest known variety. Stalks crisp, tender, with inner leaves and heart white.
Pkt. 10c; oz. 25c; ¼ lb. 60c postpaid.

WINTER QUEEN. Matures winter and spring. Compact growth, large heart. Stalks blanch to cream white. Ribs solid, crisp and free from strings.
Pkt. 10c; oz. 25c; ¼ lb. 60c postpaid.

GIANT PASCAL. Recommended for home gardens because of its keeping qualities and fine, nutty flavor. Plants mature for fall and winter use. Stalks are large, solid, thick, medium height, crisp and stringless.
Pkt. 10c; oz. 25c; ¼ lb. 60c postpaid.

CORN SALAD

FETTICUS or LAMB'S LETTUCE. Used in winter and spring as a substitute for lettuce or cooked like spinach. Sow in drills 1 foot apart, in spring or fall.
Pkt. 10c; oz. 20c; ¼ lb. 70c postpaid.

Field Corn

Prices for all Field Corn: 1 lb. 15c; 10 lbs. \$1.00 postpaid. Write for 100 lb. prices.

OREGON GROWN YELLOW DENT. Adapted to Western Oregon. Matures early, gives good grain yield. Excellent for silage.

MINNESOTA 13 YELLOW DENT. Earliest of all yellow field corns. Averages 7 feet high. A rapid, vigorous grower. Makes a fine fodder or ensilage crop. Ears are large and well filled from end to end. A heavy yielder.

PRIDE OF THE NORTH (Yellow Dent). Especially recommended for Eastern Oregon, Washington and Idaho plantings. Matures early, yields heavy. A fine silo corn.

NORTHWESTERN DENT. A red corn with yellow dent or cap. Adapted to high altitudes and short seasons. Quite frost and drouth resistant. Very early. Valuable for late planting. Fine for silage.

WHITE FLINT. Adapted to Northwestern conditions. Matures early, yields heavy.

WISCONSIN WHITE DENT. Is a large, handsome, White Dent, extremely early and matures perfectly.

CHAMPION WHITE PEARL. A large, White Dent variety. Very popular with our dairymen on account of the great amount of green feed it makes.

KING PHILIP. An early Red Flint Corn. Well acclimated and well known.

Pop Corn

PORTLAND SEED CO.'S "BUTTER CRISP". The kernels of this variety pop out large and fluffy and are creamy colored, resembling buttered popcorn.

For seed, lb. 30c postpaid. For popping, lb. 20c postpaid.

WHITE RICE. The standard variety. Kernels pop out large and snowy white.

For seed, lb. 25c postpaid. For popping, lb. 15c postpaid.



STOWELL'S EVERGREEN

CORN CULTURE

Early varieties may be planted from April 1st to May 1st, depending on weather and soil conditions. Later varieties usually planted after May 1st.

All varieties Sweet Corn on this page (except as noted)
Pkt. 10c; ½ lb. 20c; 1 lb. 30c; 10 lbs. \$2.00 postpaid.

Sweet Corn—Yellow Varieties

GOLDEN WEST. Earlier than Golden Bantam. A most popular variety, 10 to 12 rows to ear. Fine for market.

EARLY SUNSHINE. One of the earliest yellow varieties. Kernels broad, 12 rows to ear, tender and sweet. A most delicious corn.

GOLDEN BANTAM. One of the most popular of all varieties. Stalks about 5 feet high. Eight straight rows of rich golden kernels to the cob. Tender, sweet and delicious.

GOLDEN GIANT. Larger than Golden Bantam. Ears well filled, 9 to 10 inches long. Kernels rich and tender.

Sweet Corn—White Varieties

EARLY PORTLAND MARKET. Early, large-eared variety. Kernels large, sweet, plump, of purest white. A good market variety.

OREGON EVERGREEN. Heavy yielding, mid-season variety, with heavy husks, making it a good keeper after cutting. Ears large, kernels pure white, sweet. An excellent variety for canning.

BLACK MEXICAN. An old favorite still in good demand on account of its quality and sweetness. When ripe the seed is bluish or black; when ready for table use the seed is white.

STOWELL'S EVERGREEN. Remarkable for remaining a long time in a fresh condition, suitable for the table. Hardy, productive. The best late variety for general use.

COUNTRY GENTLEMAN. An old-time variety. Delicious flavor. Shoepeg kernels growing in staggered pattern. Ears long, cob small. More corn to the ear than other varieties.

Garden Guide

Amateur Gardener's Hand Book. 380 pages of the best information available, with planting charts, profusely illustrated, 5x7¼ in., paper covers.
Price \$1.00 postpaid.

BOSTON PICKLING



CUCUMBERS

DIAMOND LONG GREEN. Leading large variety, crisp, tender, fine for slicing. Best for sweet pickles when matured.

Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.35, postpaid.

DAVIS PERFECT. Vigorous grower. Fruits, long, dark green, crisp, tender. Hold their color when placed on the market. Seed cavity small and desirable variety for home and market.

Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.35, postpaid.

DELTUS. Recommended for growing under glass as well as out of doors. Fruits 12 to 14 inches long, rich, dark green. Contains few seed. Fine for slicing.

Pkt. 5c; oz. 20c; ¼ lb. 85c; 1 lb. \$3.25.

SHORT GREEN or EARLY FRAME. Early. Very hardy. Fruit straight, bright green, crisp, tender. Fine for slicing and pickling.

Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.15 postpaid.

LEMON. A very productive variety. The fruits resemble a lemon in both form and color, having distinctive flavor. Ready for slicing when starting to turn yellow. For pickling may be used either green or ripe.

Pkt. 5c; oz. 20c; ¼ lb. 60c postpaid.

BOSTON PICKLING or GREEN PROLIFIC. The most popular pickling variety. Fruits 4 to 5 inches long. Bright green. Very productive.

Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.00 postpaid.

IMPROVED WHITE SPINE. One of the best sorts for table use, fruiting early and abundantly. Fruit uniformly straight and handsome. Light green, with a few white spines.

Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.15 postpaid.

JAPANESE CLIMBING. A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp and of a good flavor.

Pkt. 5c; oz. 15c; ¼ lb. 50c postpaid.

SMALL GHERKIN. Small, oval, prickly fruited, grown exclusively for pickles. Pale green in color. Best when about 1½ inches long.

Pkt. 5c; oz. 15c; ¼ lb. 50c postpaid.

ENDIVE

CULTURE

Similar to lettuce. Outer leaves should be tied over the head to bleach. Pkt. 5c; oz. 10c; ¼ lb. 35c postpaid.

BROAD LEAVED BATAVIAN (Escarolle). Has broad, thick leaves which form a large, loose head.

WHITE CURLED. A beautiful variety with curled leaves. For early use.

GREEN CURLED. For fall and winter.

HERB SEEDS

For Flavoring and Pickling

ANISE. For flavoring. ¼ lb. 15c; lb. 30c postpaid.

CARAWAY. For flavoring. Oz. 10c; ¼ lb. 20c postpaid.

CELERY. For flavoring. Pkt. 10c; ¼ lb. 15c; 1 lb. 30c postpaid.

MUSTARD. For flavoring. Lb. 20c postpaid.

PARSLEY. For flavoring. ¼ lb. 10c; 1 lb. 35c postpaid.

POPPY. For flavoring. ¼ lb. 10c; 1 lb. 35c postpaid.

HOP ROOTS LISTED ON PAGE 31.

FENNEL

FLORENCE FENNEL. An Italian vegetable with thick leaf stem. Served boiled or sliced, also cooked in soups. Easily grown. Pkt. 10c; oz. 25c postpaid.

EGG PLANT

Pkt. 10c; oz. 60c; ¼ lb. \$1.75 postpaid.

BLACK BEAUTY. Extra early, quick growing, vigorous variety, uniform size. Color deep, blackish purple. Excellent for market.

NEW YORK IMPROVED LARGE PURPLE. Leading market variety. Not quite as early as Black Beauty. Large and productive.

GARLIC

A profitable crop, when the soil is right. Plant in October. Write for cultural instructions and quantity prices. Lb. 30c postpaid.

HERB SEEDS—For Planting

ANISE. Used as a cordial and for garnishing and flavoring. Seeds have an agreeable aromatic taste.

Pkt. 10c; oz. 35c.

BALM. Leaves are fragrant and are used as a tea for fevers. Pkt. 10c; oz. 50c postpaid.

BASIL (Sweet). The leaves are used for flavoring soups, stews and highly seasoned dishes. Pkt. 10c; oz. 50c.

FENNEL (Sweet). The boiled leaves are used in sauces. Pkt. 10c; oz. 30c.

HOREHOUND. Leaves used for seasoning.

Pkt. 10c; oz. 75c.

HYSSOP. Used as a stimulant and a mild tonic.

Pkt. 10c; oz. 75c.

BORAGE. The leaves are used for flavoring and the flowers furnish bee pasture. Pkt. 10c; oz. 50c.

CARAWAY. Grown for the seeds, which are used extensively for flavoring of bread, pastry, etc.

Pkt. 10c; oz. 25c.

CATNIP or CATMINT. The leaves are used for seasoning. It also makes an excellent bee pasture.

Pkt. 10c; oz. \$1.00.

CORIANDER. The seeds are used in the manufacture of liquors and confectionery. Pkt. 10c; oz. 25c.

DILL SEED. For planting.

Pkt. 10c; oz. 20c; ¼ lb. 50c postpaid.

MARJORAM (Sweet). The leaves and the ends of the shoots are esteemed for seasoning in summer and are also dried for winter use. Pkt. 10c; oz. 75c.

ROSEMARY. The aromatic leaves are used for seasoning. Pkt. 10c; oz. \$1.00.

RUE. For medicinal purposes. Pkt. 10c; oz. 50c.

SAGE. The most extensively used of all herbs as a seasoning for dressing. Pkt. 10c; oz. 75c.

SUMMER SAVORY. A hardy annual. The dried stems, leaves and flowers are extensively used for flavoring, particularly in dressings and soups. Pkt. 10c; oz. 75c.

THYME. Used for seasoning. Pkt. 10c; oz. \$1.00.

WORMWOOD. Used medicinally and is beneficial for poultry. Pkt. 10c; oz. 50c.

TRUE LAVENDER. Used chiefly in the manufacture of perfumery. Pkt. 10c; oz. 75c.



MUSHROOM SPAWN

PURE SPORE WHITE VARIETY FOR HOME USE OR MARKET

Our free pamphlet gives general instructions

NEW AMERICAN SPORE CULTURES. Produced from original spores by a new French process, the only method by which select varieties can be perpetuated and improved. Bricks weight about 20 ounces and will plant 10 square feet. Brick 40c; 5 bricks \$1.75 postpaid.



TALL GREEN CURLED KALE

KALE or BORECOLE

Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25 postpaid.

EMERALD ISLE. Medium height, very hardy, vigorous, finest flavor. Produces new shoots as fast as leaves are used. Leaves closely curled.

TALL GREEN CURLED SCOTCH. Grows about 2 feet high. Leaves dark green, curled and wrinkled. Very hardy and is improved by a slight frost.

DWARF GREEN CURLED. Leaves beautifully curled and bright green.

COW KALE or THOUSAND HEADED. The most valuable green feed for Pacific Coast dairymen. Grown same as cabbage.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 50c postpaid.

LEEK

LARGE ROUEN or AMERICAN FLAG. Cultivate same as onions and hill up about the neck to blanch.

Pkt. 10c; oz. 25c; ¼ lb. 70c postpaid.

KOHL-RABI SEED

CULTURE

Plant same as cabbage. A delicious vegetable cooked like turnip.

Pkt. 10c; oz. 25c; ¼ lb. 75c postpaid.

EARLY WHITE VIENNA. Very early. Bulb white. Best table variety.

EARLY PURPLE VIENNA. Same as above except in color, which is purple.

SPECIAL OFFER ON BOOKS

Forage Crops, by Shaw, 90c postpaid.

The Gardener, by Bailey, \$2.00 postpaid.

Lawns, by Rockwell, \$1.00 postpaid.

Gladiolus, by Rockwell, \$1.00 postpaid.

Garden Cinderellas, by Helen Fox, \$3.00 postpaid.

KALE AND LETTUCE PLANTS IN SEASON. SEE PAGE 31.

LETTUCE SEEDS

CULTURE

May be sown most any time of year that soil conditions permit. Cover about ½ inch deep. Heading varieties should be spaced about 12 to 14 inches apart each way.

All varieties of Lettuce on this page (except as noted)
Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.25 postpaid.

HANSON (Improved Hard Heading Stock). One of the very best. Heads green outside and cream inside. It withstands the hot sun well.

BROWN DUTCH. Forms a large, solid head. Sweet, tender and of good flavor. Outer leaves are tinged with brown. It is very hardy.

PORTLAND SEED CO.'S CRISPETTE. Heads large, firm, crisp and tender. Bright green, curly leaves cover the outside. Solidity of the heads is insured by the large, white main ribs of leaves which curve toward the center. Withstands hot weather better than most varieties.

Pkt. 5c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.75 postpaid.

NEW YORK or WONDERFUL. The best head lettuce for market growers. Large heads, solid, tender, crisp and sweet, beautifully blanched to a creamy white with bright green outer leaves. A hardy, rapid grower, deep rooted.

Pkt. 5c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00 postpaid.

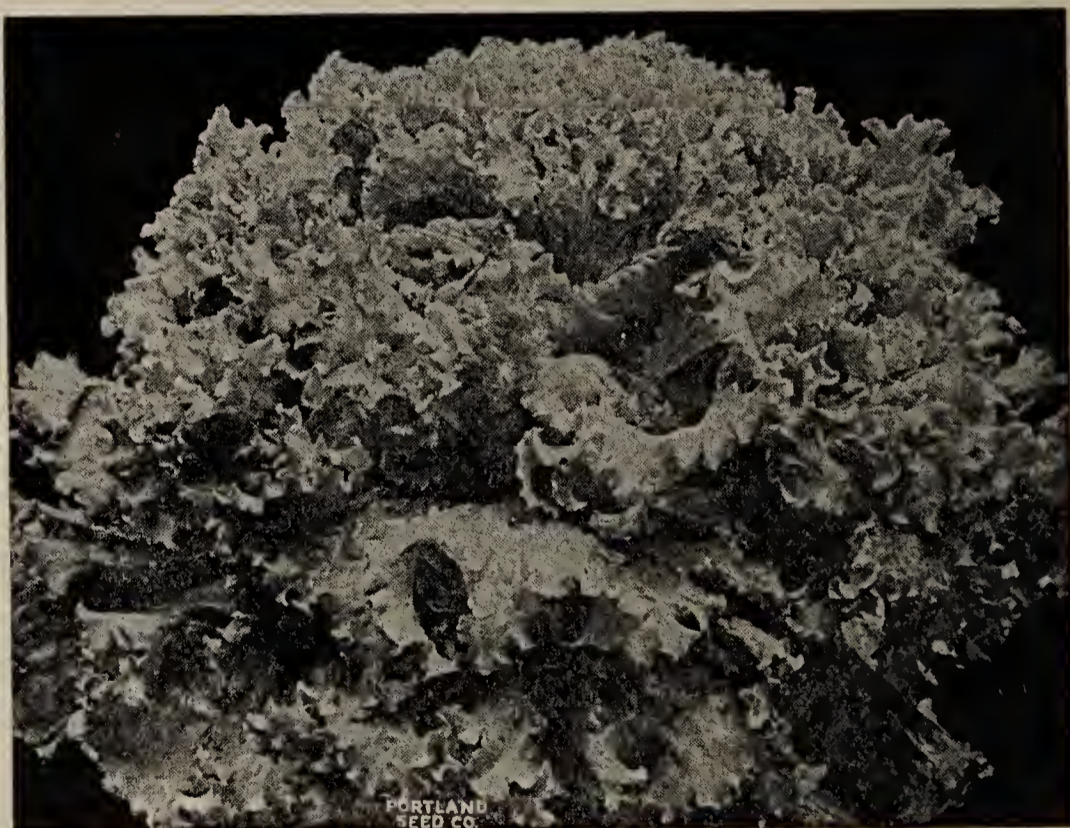
Loose-Leaf Varieties

GRAND RAPIDS. The standard hothouse lettuce for forcing. Does fine in the open ground. Leaves light yellowish green, slightly crimped, crisp and tender.

SIMPSON'S EARLY CURLED. Fine for early planting and forcing. Leaves finely curled and wrinkled. Does not wilt readily.

BLACK SEEDED SIMPSON. Forms a close, compact mass. Curly leaves of a yellowish green.

CHICKEN LETTUCE. Fine for chicken or rabbit feed. Does not form heads. Stalks 3 to 4 feet high, loaded with leaves. May be picked off the stem the same as kale.



GRAND RAPIDS

MUSTARD SEED—For Planting

Sow any time in the spring, in rows. Thin out as necessary. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c postpaid.

SOUTHERN GIANT CURLED. Large variety, with fine curled leaves.

FORDHOOK CURLED. Dark green, finely curled, leaves of distinctive flavor. Fine for salads.



KLONDIKE

WATERMELONS

CULTURE

May be planted soon as ground is warm and weather conditions permit. Hills 6 feet apart each way.

All varieties of watermelons on this page (except as noted) Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c postpaid.

KLECKLEY'S SWEET or MONTE CRISTO. Vine vigorous, productive. Fruits oblong, dark green flesh, rich, red, sweet and tender.

BLACK SEEDED ICE CREAM. Fruits almost round, rind thin, medium green. Flesh pink, sweet. Matures early. A fine keeper.

Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00 postpaid.

KLONDIKE. Rind dark green, thin. Flesh distinctive shade of red, brittle and sweet. Fruits oblong. A good shipper because it does not wilt.

Pkt. 5c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.60 postpaid.

SWEETHEART. Vine vigorous and productive. Fruits large, oval, heavy mottled, dark and bright green, rind thin, flesh bright red, firm, sweet and tender. A good shipper.

TOM WATSON. Rind thin, dark green flesh, deep red, crisp, sugary. Fruits long, cylindrical. Stands handling and long shipment.

MUSKMELONS

CULTURE

Same as for watermelons. Hills 4 to 6 feet apart each way.

All varieties of Muskmelon on this page (except as noted) Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.25 postpaid.

HEARTS OF GOLD. A splendid shipping variety. Rind firm, densely netted. Flesh rich, orange color, fine grained, excellent flavor. Seed cavity small.

OSAGE or MILLER'S CREAM. Fruits oval, almost smooth. Flesh salmon color, thick, sweet. An all-purpose melon.

SMALL GREEN NUTMEG. Ripens early. Flesh green, fine and sweet. Fine for market and family garden.

BURRELL GEM. Fruits nearly round, heavy netting, flesh reddish orange, thick, fine grained. A perfect melon for market and home garden.

ROCKY FORD POLLOCK 10-25. Fruits uniform, heavily netted. Flesh salmon tinted. Good shipping and keeping qualities.

LARGE YELLOW CANTALOUPE. Early and productive. Flesh salmon color. Rich, sweet.

CASABA

GOLDEN BEAUTY. Fruit early, globular, bright yellow, wrinkled skin. Flesh white, very thick, juicy and sweet. Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.40 postpaid.

USE GERMACO HOTKAPS FOR MELONS

ONIONS

CULTURE

Plant in February or March if soil and weather permit. Cover about ½ inch deep. Thin to about 8 plants per foot.

PORTLAND SEED CO.'S OREGON YELLOW DANVERS. Bulbs large, half globe, small neck, thin, brownish skin. Flesh firm, fine grained, white, mild. Ripens up hard and early. A good keeper. Best for coast markets.

Pkt. 5c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00 postpaid.

WHITE "BUNCHING". An attractive "green onion". The young stalks are crisp and mild, attaining a good size before the bulb forms.

Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.75 postpaid.

AUSTRIAN BROWN. Globe-shaped bulbs, clear, amber skin. Ripens early. Good keeper. Used largely for growing sets.

Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.75 postpaid.

YELLOW GLOBE DANVERS. Round or globe-shape variety, thin, yellowish skin, flesh white, fine grained, firm. Good keeper. Ripens early.

Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.75 postpaid.

PRIZETAKER. Fine flavor, enormous size, perfect globe shape, bright, straw-colored skin, neck very small and always ripens up hard.

Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$2.00 postpaid.

LARGE RED WEATHERSFIELD. Large, flat onions, purplish red. Very productive.

Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$2.00 postpaid.

WHITE PORTUGAL. Medium size, flat, pure white. Flesh firm, fine grained. Late ripening. Good keeper. Fine for white sets and pickling onions.

Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$2.00 postpaid.

RIVERSIDE SWEET SPANISH. A large, globe-shaped, brown onion, weighing 1 to 3 pounds. Small tops. Flesh mild and sweet.

Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.75 postpaid.

BOTTOM ONION SETS. Small onions grown from seed planted too thick to attain large size. Will produce green onions in short time. Will also produce dry onions earlier than those grown from seed.

Lb. 25c postpaid. Write for quantity prices.

CRYSTAL WAX BERMUDA. Medium size, pure, waxy white. One of mildest sorts grown.

Pkt. 5c; oz. 30c; ¼ lb. \$1.00; 1 lb. \$3.75 postpaid.

YELLOW BERMUDA. Same size as Crystal Wax. Yellow straw color. Slightly better for shipping.

Pkt. 5c; oz. 30c; ¼ lb. \$1.00; 1 lb. \$3.75 postpaid.



P. S. CO.'S OREGON YELLOW DANVERS

"The Perfect Onion"

OKRA or GUMBO

Grown for its green pods, which are used in soups, stews, etc., for their rich flavor and substance.

Pkt. 10c; oz. 15c; ¼ lb. 35c postpaid.

IMPROVED DWARF GREEN. Very early, with long, green, slender pods.

WHITE VELVET. Large pods, smooth or very slightly ribbed. Remain tender a long time.

PARSLEY

Pkt. 5c; oz. 10c; ¼ lb. 30c postpaid.

PLAIN. Plain leaves, flat, dark green. Used for flavoring and drying.

TURNIP ROOTED or HAMBURG. Roots used for flavoring soups, stews, etc.

EXTRA DOUBLE CURLED. Dark green, moss-like leaves, finely curled.

PARSNIPS

CULTURE

Culture same as for carrots. May planting considered best.

HOLLOW CROWN or LONG WHITE. Long, white, smooth, tender, sugary, excellent flavor. Very hardy. Will keep through the winter without protection.

Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 80c postpaid.

GARDEN PEAS

CULTURE

Plant as soon as weather and soil conditions permit in the spring.

All varieties of peas on this page (except as noted)

Pkt. 10c; ½ lb. 20c; 1 lb. 30c; 10 lbs. \$2.50 postpaid.

Main Crop Varieties

GRADUS or PROSPERITY. Early wrinkled pea, pods large, dark green. Vines 2½ to 3 feet in height. Excellent quality and flavor. Very popular with gardeners.

TALL TELEPHONE. A standard market variety. Very productive, extra large pods, peas of the finest quality and flavor. A strong, rapid grower, vigorous, 4 to 5 feet.

IMPROVED STRATAGEM. One of the best large podded varieties. Peas large, dark green, fine quality. Vine medium height, stocky. A good yielder.

Early and Dwarf Varieties

EARLY DWARF GRADUS. Slightly earlier and more dwarf than the regular Gradus. Pods medium green, rather large and well filled with dark green peas of exceptional quality.

DWARF TELEPHONE or DAISY. Medium tall. Large, well filled pods. Excellent flavor.

LAXTONIAN. An early, large podded pea of superior excellence. Pods are well filled, holding 8 to 10 peas.

LITTLE MARVEL. Dwarf, bushy vines. Pods 2½ to 3 inches long, tightly filled with plump, luscious, deep green peas.

AMERICAN WONDER. A popular early, wrinkled variety, vine 10 to 12 inches in height. Peas sweet, tender, well flavored.

PREMIUM GEM. One of the earliest dwarf varieties. Vines about 15 inches in height. Pods light green, rich, fine flavored, sugary peas.

ALASKA or EARLIEST OF ALL. A smooth, blue pea, vine 2 to 3 feet in height. Peas medium size, bright green, excellent flavor.

POTATOES

CERTIFIED SEED

All varieties—10 lbs. \$1.00 postpaid. Write for special low prices on quantities.

EARLY ROSE—Certified. The best lot of this old standard variety we have ever had. A big yielding early potato and the best baking variety grown. Has rose skin, white flesh, with a Burbank shape.

EARLY OHIO—Certified. Vines erect, with rather heavy stems. Easy to cultivate. Somewhat light yielder, but catches the very early markets. Tubers are cylindrical and blocky, skin pink with russet dots. They ship well as new potatoes.

BURBANKS—Certified. This is the standard commercial variety. It is a very profitable potato to grow, meeting the popular demand of the Pacific Coast markets. We offer a select, true, heavy yielding strain. When in doubt as to the variety to plant, Burbank will prove your safest choice.

AMERICAN WONDER—Certified. Vigorous vine, profuse bloomer, heavy setter. Used by truck gardeners for early crops. The elongated shape meets the Pacific Coast market demands.

PORTLAND SEED CO.'S EARLIEST OF ALL—Certified. The tubers are of a flattened, round shape, with few and shallow eyes, white skin; are exceptionally smooth, seldom making a second growth, which always insures a high percentage of marketable tubers. The tubers form close together in the hills, making digging easy. A remarkably good keeper for an early variety. An ideal forcing potato for market gardeners.

NETTED GEMS (Russet Burbanks)—Certified. A splendid late potato that is grown extensively in irrigated sections. Tubers are elongated, russet netted skin, flesh white, shallow eyes. Good keepers and produce a fine yield.

IRISH COBBLER—Certified. This potato is the leading market variety. Grown extensively on the early truck lands of the East. Sets quickly with marketable size tubers early. Produces a round, blocky tuber.

PEPPERS

CULTURE

Start in hot bed or pots during February or March. Transplant to open ground when 3 or 4 inches high.

All varieties of Pepper on this page (except as noted)

Pkt. 10c; oz. 60c; ¼ lb. \$1.75 postpaid.

PERFECTION PIMENTO. Unequaled for sweetness. Large, flesh smooth, thick, vigorous grower. Yields heavy. Popular garden variety.

LARGE BELL or BULL NOSE. Large, mild, thick-fleshed variety. Fine for stuffed pickles.

CAYENNE. Pods long, bright red. Very pungent and used with pickles when green.

CHINESE GIANT. A favorite with gardeners. Large, thick flesh and mild. Fine for salads, relishes. Ships well.

Pkt. 10c; oz. 75c; ¼ lb. \$2.00 postpaid.

RUBY KING. Very large, sweet and mild. Bright scarlet.

CHILI. Pods small and pointed, brilliant scarlet. Very pungent when ripe.





EARLY CRIMSON GIANT

RADISHES

CULTURE

May be planted almost the year around, except during cold weather months.

All varieties of Radish on this page (except as noted)
Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 85c postpaid.

CRIMSON GIANT. Roots large, turnip shape. Flesh solid, crisp, juicy, mild flavor. Very early. Excellent for forcing and open ground.

EARLY SCARLET TURNIP, White Tipped. Turnip shaped roots tipped with white. Flesh white, crisp, tender and sweet. Tops small. Matures very early.

EARLY SCARLET GLOBE. Small, scarlet, globe-shaped radish, small top. Very quick growth, very early. Rich color and crisp, tender flesh.

LONG BLACK SPANISH. A hardy radish adapted for winter use. Roots long, thick, almost black. Flesh white, of firm texture and well flavored.

WHITE ICICLE. A popular white radish. Roots long, clear, white, especially mild.

FRENCH BREAKFAST or HALF LONG. Medium size, quick growth, crisp and tender. Lower end and tap-root white.

CHINA ROSE WINTER. An excellent winter variety. A favorite with market gardeners. Roots bright rose, flesh white, firm, superior quality.

SALSIFY or VEGETABLE OYSTER

MAMMOTH SANDWICH ISLAND. Roots large, smooth, very hardy. May remain in ground during winter or may be stored in dry earth or sand.

Pkt. 5c; oz. 20c; ¼ lb. 55c; 1 lb. \$2.00 postpaid.

TOBACCO

Pkt. 10c; oz. 75c postpaid.

CONNECTICUT SEED LEAF. Hardy and the best adapted to cool localities.

HAVANNA. Of fine texture and delicate flavor.

RHUBARB PLANTS LISTED ON PAGE 31.

PUMPKINS

CULTURE

Plant during early May. Hills 6 to 8 feet apart.

All varieties of Pumpkin on this page (except as noted)
Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.00 postpaid.

LARGE YELLOW or CONNECTICUT FIELD. Large, round. Deep, glossy yellow. Very productive. Good keeper. Grown extensively for stock feeding.

GIANT OF ALL ("King of Mammoths.") Almost a globe in shape. Skin a rich golden yellow, flesh firm, fine grained and deep yellow, sweet flavored, very thick. Excellent quality.

WINTER LUXURY. The best flavored pie pumpkin grown. Excellent keeper. Medium size. Color golden russet, finely netted. Flesh deep golden, sweet, tender and very thick.

SWEET or SUGAR. A productive small pumpkin. Skin orange, flesh deep yellow, fine grained. Very sweet. The famous "New England Pie Pumpkin."

SPINACH

CULTURE

For early spring use sow in the fall or sow in early spring for later use.

All varieties of Spinach on this page (except as noted)
Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 50c postpaid.

NEW ZEALAND. Thrives in hot weather in any soil. Leaves comparatively broad and pointed. Will grow through the summer.

Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 75c postpaid.

IMPROVED THICK LEAF. Forms a cluster of large, smooth, medium dark green leaves, very thick. Best for market gardeners.

KING OF DENMARK. A valuable early variety. Leaves large, medium dark green, remaining in condition one to two weeks. Fine for the home garden.

PRICKLY WINTER. Hardest variety. Must be sown in the fall. Seed prickly. Leaves long, pointed, thick and succulent.

LONG STANDING. Large, fleshy, savoyed leaves remain in an edible condition over a long period. Slow to go to seed.



IMPROVED
THICK
LEAVED.

BEST FOR
MARKET
GARDENERS.

SQUASH**CULTURE**

Squash culture same as for Pumpkins.

All varieties of Winter Squash, except as noted, pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25 postpaid.

Winter Varieties

IMPROVED HUBBARD SQUASH. Large and of warty Hubbard type. Shell dark green, hard, moderately warted. Flesh light orange, very dry and richly flavored. One of the best winter squashes.

BANANA. One to two feet long. Flesh firm, orange yellow. Rind smooth, greyish green color. Excellent flavor. Splendid keeping qualities.

BOSTON MARROW. Skin yellowish, very thin. Flesh dry and fine grained. Of unsurpassed flavor.

GOLDEN HUBBARD. Same in size, shape and quality as the well-known Hubbard squash, except that it is bright red or golden color and somewhat earlier. Good keeper.

MAMMOTH CHILI. The largest of all squashes. The rich, fine flavored flesh insures its value for all purposes.

SIBLEY or PIKE'S PEAK. Rind smooth, thin, pale green color. Flesh thick, solid, deep orange, dry, delicious flavor.

TABLE QUEEN. Small, dark, green, acorn shape. Flesh rich yellow, dry, richly flavored. Medium early. A good keeper. Easy to grow.

WARTY HUBBARD. Round, with elongated ends, dark green, hard, deeply warted shell. Flesh bright orange yellow. Thick, dry and rich. Excellent winter squash.

Summer Varieties

All varieties of Summer Squash (except as noted) pkt 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.15 postpaid.

COCOZELLE or ITALIAN MARROW. Skin dark green, becoming marbled with yellow at maturity. Flesh pale green, thick, firm and tender. Best when 5 to 6 inches long.

EARLY SUMMER CROOKNECK. Earlier and larger than ordinary crookneck. Skin yellow, thin, hard and warty. Flesh tender and of good quality.

WHITE BUSH SCALLOP. Early, medium size, somewhat flattened, creamy white skin. Flesh milk white, firm, richly flavored.

TURNIPS**CULTURE**

For early use sow as soon as ground can be worked. For fall and winter use sow during August and September.

All prices of Turnips on this page (except as noted), pkt. 5c; oz. 15c; ¼ lb. 25c; 1 lb. 65c postpaid.

EARLY FLAT WHITE DUTCH. Small, erect tops. Roots flat. Flesh white, firm, tender and sweet. Makes quick growth.

EARLY WHITE MILAN. Same as Purple Top only roots are pure white.
Pkt. 5c; ¼ lb. 35c; 1 lb. \$1.25.

EARLY SNOWBALL. Matures very early. Roots round, snowy white, crisp, fine flavor.

GOLDEN BALL. Medium size, round, yellow. Flesh firm, hard, most excellent flavor. Keeps well. A fine table variety.

EARLY PURPLE TOP MILAN. Among the earliest. Small, erect top. Roots purple above, white below. Flesh white and firm.

PURPLE TOP STRAP LEAF. An early variety. Roots medium size, flat, purple above the ground, white below. Flesh white, firm but tender. May be used for table or stock feeding.

MAIN CROP TURNIPS

POMERANIAN WHITE GLOBE. Standard variety. Perfect globe shape, skin white, smooth. Has unusual long feeding period before becoming pithy. Yields heavy.

PURPLE TOP WHITE GLOBE. Large, globe shape. Purple on top, white below. Excellent quality. Recommended for family garden and field crop.

YELLOW ABERDEEN. Medium size, round, light yellow. Very productive, hardy. Flesh firm, tender and sweet. A favorite with dairymen.

COWHORN. Large, long, white roots, growing half out of the ground. One of the best stock turnips.

WHITE EGG. Smooth, pure white. Grows half out of the ground. Choice for table use. Flavor sweet and mild.

BORTFIELD. The easiest harvested root crop. A good keeper; will keep through the average winter in the field. Due to thick skin, is quite resistant to worm injury. A very heavy yielder.

RUTABAGA or SWEDE

IMPROVED AMERICAN PURPLE TOP. The leading variety. Large, immense yielder. Superior in every way. Pkt. 5c; oz. 15c; ¼ lb. 25c; 1 lb. 65c postpaid.

TOMATO—Seed**CULTURE**

Plant in box inside or hot bed during February or March. Transplant soon as danger of frost is past.

All varieties of Tomatoes on this page (except as noted) Pkt. 10c; oz. 35c; ¼ lb. \$1.00; 1 lb. \$3.75 postpaid.

MARIGLOBE. Very resistant to disease. Fruits large, globe shape, deep red, finest quality. Excellent for slicing and canning.

Pkt. 10c; oz. 45c; ¼ lb. \$1.50; 1 lb. \$5.50 postpaid.

DWARF CHAMPION. Vine dwarf or tree type. Fruits purplish pink, smooth.

Pkt. 10c; oz. 40c; ¼ lb. \$1.40; 1 lb. \$5.00 postpaid.

SPARK'S EARLIANA. One of the earliest scarlet fruited varieties. Medium size, almost seedless and solid. Vine open and spreading. A heavy bearer. Succeeds everywhere.

BONNY BEST. Early, hardy, scarlet fruited variety. Medium size, solid, smooth, quite round. Very productive. Quality excellent.

CHALK'S EARLY JEWELL. Fruits large, bright red, round, smooth, solid, almost seedless. Recommended for market or home garden.

BURBANK. Fruits bright crimson, smooth, firm, with few seeds. Keeps well and a good shipper. Ripens early. Pkt. 10c; oz. 35c; ¼ lb. \$1.25; 1 lb. \$4.50 postpaid.

JOHN BAER. Brilliant round fruits, high crown, smooth, delicious flavor, easily peeled. Yields heavy. Keeps well and a good shipper.

STONE. Popular with canners and gardeners. Scarlet fruited, solid, perfect shape, carrying qualities remarkable.

GOLDEN QUEEN. Large, smooth, pure yellow, mild flavor. Pkt. 10c; oz. 50c; ¼ lb. \$1.65 postpaid.

YELLOW PAIR. Small, yellow fruits. Pear shape, solid, very hardy. Fine for preserving. Pkt. 10c; oz. 50c; ¼ lb. \$1.75 postpaid.

YELLOW PLUM. Small plum-shaped, deep yellow skin and flesh. For preserving. Pkt. 10c; oz. 50c; ¼ lb. \$1.75 postpaid.

GROUND CHERRY. Fruits small, yellow, enclosed in loose paper husks. Very much prized for preserving. Pkt. 10c; oz. 50c; ¼ lb. \$1.75 postpaid.

BREAK O' DAY. Wilt resistant. Vines vigorous open growth and very productive. Fruits scarlet medium to large size true globe shape. Slightly earlier than Mariglobe, an excellent variety for the market and home garden.

Pkt. 10c; oz. 50c; ¼ lb. \$1.75; 1 lb. \$6.50 postpaid.

TOMATO PLANTS IN SEASON. SEE PAGE 31.



ASTERS

Asters grow to their greatest perfection in our mild, cool climate. We offer splendid strains that have been developed by careful attention. For fall flowers they rival the Chrysanthemum in size and beauty.

CALIFORNIA GIANTS. They combine the robust habit of growth and length of stem that characterizes the Beauty type and the Crego or Ostrich Feather type of blossom. A true non-lateral variety. White, peach blossom, light blue, deep rose, dark purple and mixed. Pkt. 10c; $\frac{1}{8}$ oz. 75c.

CALIFORNIA GIANT SUNSHINE. Improved Anemone Type. One of the most attractive Asters. Plants are strong and bushy, with many flower stalks. The large single flowers have centers of twisted and quilled petals of contrasting colors. Their delicate beauty and strong stems and keeping qualities make them ideal for cutting. White, pink, lavender, violet, carmine and mixture. Pkt. 10c.

IMPROVED CREGO GIANT. Distinct in every way. Magnificent flowers of rare beauty, form and color. Very vigorous, long stems and free flowering. White, shell pink, deep rose, crimson, orchid, azure blue, purple and mixture. Pkt. 10c; $\frac{1}{4}$ oz. 50c.

EARLY WONDER (Express). The best extra early variety. The flowers are of good size, quite double and borne on good, stiff stems. Crimson, dark blue, light blue, rose, white and mixed. Pkt. 10c.

ASTER MUM. Greatly resembles the Chrysanthemum. Plants vigorous with good stems. Earlier than Crego Giant. White, rose, lavender and mixture. Pkt. 10c.

HEART OF FRANCE. The best red Aster to be had. Produces an abundance of large flowers on good stems. Plants of vigorous branching habit. Pkt. 10c.

AMERICAN GIANT BRANCHING. Beautiful Aster for cutting. The branching habit is accompanied by vigorous growth and profusion of blooms. Flowers are double, large and produced on long, stiff stems. White, yellow, rose, crimson, purple and mixture. Pkt. 10c.

QUEEN OF THE MARKET. The best early Aster. In bloom fully two weeks before most other varieties begin to blossom. White, light blue, deep rose, scarlet, purple, peach blossom and mixture. Pkt. 10c; $\frac{1}{8}$ oz. 25c.

CREGO GIANT. Distinct in every way. Magnificent flowers of rare beauty of form and brilliant coloring. Very vigorous and free flowering. White, orchid, azure blue, crimson, deep rose, purple, shell pink, lavender, rose and mixture. Pkt. 10c.

AGERATUM. One of the best summer flowering plants grown. Rapid growing and free blooming makes it especially appreciated during the hot, dry summers.

Nanum (Blue Perfection), 9 inch. The darkest Ageratum grown from seed. Album. White. Little Dorrite. Blue. 6 inch. Dwarf. Azure blue. Pkt. 10c.

ALYSSUM—Benthami Martimum (Sweet Alyssum). 10 inch. Flowers white and honey scented. Begins blooming early in season and continues until frost.

Little Gem. 4 inch. Dense growing plants, completely covered with snow white blossoms. Pkt. 10c; oz. 50c.

AMARANTHUS. Handsome foliage and interesting flowers, making a striking effect in borders and beds. Thrives in hot, sunny situation with rather poor soil. 2 to 5 feet. Sow early and transplant.

Caudatus (Love Lies Bleeding). Graceful, drooping flowers. Tri-Color or Joseph's Coat. Foliage scarlet, yellow and green. Pkt. 10c.

ARCTOTIS GRANDIS (African Daisy). Plants form bushes about 2 feet across with deep cut foliage and daisylike flowers, often $2\frac{1}{2}$ inches in diameter. Color pale lilac. Pkt. 10c.

BEGONIA. One of the most popular house plants.

Gracilis. Small, pink flowers in great profusion. Pkt. 10c.

BALLOON VINE. A rapid growing climber. Blossoms very small and white. Light, graceful foliage. Bears curiously inflated seed pods. Sow where it is to remain. Succeeds best in light, warm soil. 10 to 12 feet. Pkt. 10c; oz. 35c.

BALSAM (Lady Slipper). Handsome plants, producing masses of various colored flowers, half hardy. Curious seed pods which, when ripe, will explode when touched. If sown in May should bloom from July until frost. 1 to $1\frac{1}{2}$ feet tall.

Double Camelia Flowered. Mixed. Pkt. 10c; $\frac{1}{4}$ oz. 30c.

BRACHYCOME (Swan River Daisy). Dwarf growing, free flowering annuals, producing a profusion of pretty blue or white flowers. Ideal for borders. Mixed seed. Pkt. 10c.

BROWALLIA (Amethyst). A favorite free flowering annual covered during summer and fall with beautiful blue and white flowers. Mixed seeds. Pkt. 10c.

CALENDULA (Pot Marigold).

Radio. This novel development of form in Calendulas has been received with much favor. The flowers are globular in shape with bristling quilled petals which add materially to the grace of the blossoms. Their color is a deep rich orange. Pkt. 10c.

Ball's Gold. Mammoth, double flowers of improved type. Deep golden yellow. Pkt. 10c.

Ball's Orange. Double orange type of the above. Nice for cutting. Pkt. 10c.

Double Mixed—Pkt. 10c; oz. 20c.

CALLIOPSIS. Always covered with a mass of bright flowers, yellow, crimson and maroon. Sow where plants are to remain. In sunny situations they will bloom all summer. Fine for cut flowers. 1 to 2 feet tall.

Tall, Single Mixed. Pkt. 10c; oz. 35c.

Tall, Double Mixed. Pkt. 10c; oz. 40c.

CANDYTUFT (Iberis). One of the most highly prized annuals for beds and masses. For early blooms sow indoors, transplanting to garden when 2 to 3 inches high.

Coronaria. Giant white hyacinth flowered. Pkt. 10c.

Umbellata Type. Mixed. Pkt. 10c; oz. 65c.

CANARY BIRD VINE. Rapid growing annual climber, the yellow blossoms bearing a resemblance to a bird with its wings half extended. Pkt. 10c.

CARDINAL CLIMBER. Considered the most beautiful and brilliant annual climber. A strong and rapid grower, with fern-like foliage literally covered with a blaze of circular cardinal red flowers from midsummer until frost. Pkt. 10c.

CARNATION (Dianthus Caryophyllus). Carnations are tender perennials, being easily winter killed and therefore listed with the annuals. Splendid for cut flowers. Deliciously fragrant. Colors pink, white, red. Sow indoors in March. Transplant to other boxes when 1 inch high. Keep them growing until soil is warm, then transfer to open garden. Height 1 to 1½ feet.

Chaubd Everblooming. Extra choice, double mixed. Flower in 5 to 6 months. Pkt. 10c.

Margaret. Finest double mixed. Bloom in 4 months from seeding. Pkt. 10c; ⅛ oz. 50c.

Carnation American Hybrids. Large flowering type used by florists. Pkt. 25c.

CASTOR BEAN (Ricinus). Tropical appearing foliage plant. Highly ornamental, of stately growth, large leaves of bronze or glossy green. Should not be planted until soil is warm. Grows 3 to 5 feet.

Best Varieties Mixed. Pkt. 10c; oz. 25c.

CHRYSANTHEMUM. Effective and desirable as summer flowering plants. Hardy annuals. Sow seeds in flats very early in spring and transplant to garden when soil is warm. Grows 1 to 2 feet.

Coronarium. Double, finest mixed. Pkt. 10c; oz. 40c.

CINERARIA (Biennial). Magnificent and indispensable flowering plants for the window gardens. White, blue, violet, crimson shades, covering the plant with a sheet of bloom. Should be sown under glass in fine soil.

Hybrida Grandiflora. Choicest mixed. Pkt. 50c.

Hybrida Grandiflora. Semi-dwarf, florists' strain. Choice mixed. Pkt. 50c.

Hybrida. Fine mixed. Pkt. 25c.

CLARKIA. Hardy annual of easy growth. Produces fine effect massed in beds. Bright and attractive. Fine for cutting. Does well in shade. Sow early in open ground. Grows 1 to 2 feet tall.

Scarlet Queen. Salmon Queen. Fine Mixed. Pkt. 10c.

CYPRESS VINE (Ipomoea Quamoclit). A climber of rapid growth. Delicate, fern-like foliage and great numbers of star-shaped blossoms with long tubes. Does best in warm, sunny location. Grows 10 to 15 feet. Scarlet or mixed. Pkt. 10c; oz. 75c.

COSMOS. Beautiful plants, furnishing an abundance of cut blooms. Seed sown in the open ground in April should produce plants covered with blooms in July. Transplant not less than 18 inches apart in rows or in masses in beds. Pinching out tops when plants are a foot high makes them bushy and sturdy.

Extra Early Mammoth Flowering. Pink. Pkt. 10c.

Finest Mixed. Pkt. 10c; oz. 60c.

Extra Early, Double Crested or Anemone Flowered. The newest thing in Cosmos. Mixed. Pkt. 10c postpaid.

Klondyke. Blooms very early and continuously. 3 to 4 feet high. Large, orange flowers on long stems.

Pkt. 10c; ¼ oz. 75c postpaid.

DELPHINIUM—Wrexham Strain Hybrids (Perennial). The original strains from the north of Wales. Carefully developed and the rarest and best varieties selected for this climate. The range of colors runs to the most delicate combinations of mauve and light blue, Crater Lake blue, heliotrope, pinkish-lavender, deep blues and purples. Seeds, mixed, pkt. 10c.



COSMOS

DAHLIA. Sow seeds in boxes indoors very early, transplanting to open when danger from frost is past. Will bloom first season. Tubers of the best ones may be saved for the following season.

Double Mixed. Single Mixed. Pkt. 10c.

DAISY—Orange African (Dimorphotheca Aurantiaca). Extremely showy annual with bushy plants 12 to 15 inches high. Flowers are 2½ inches across, rich orange gold, with dark disc and halo. A magnificent sight in bloom. Pkt. 10c; oz. 50c.

EVENING PRIMROSE (Oenothera Lamarckiana). For exposed positions, in border or on rockery. A constant bloomer all summer. Shades of yellow. Sow seeds early in boxes, covering very lightly with fine soil firmly pressed down. Pkt. 10c; oz. 75c.

FOUR O'CLOCK (Mirabilis Jalapa). Marvel of Peru. Easy culture, bearing a profusion of bright flowers of various shades. Flowers open at four o'clock, close in morning. Sow seeds early in the open and transplant. 2 to 3 feet high. Choice Mixed, pkt. 10c; oz. 25c.

GAILLARDIA (Blanket Flower). Very showy garden plant, with brilliant flowers. Free blooming from early summer until autumn. Especially effective in masses. Sow early where plants are to bloom. Colors crimson and orange. Splendid cut flowers. Half hardy annual.

Picta Lorenziana. Double. Finest mixed. Annual.

Picta, Single. Fine mixed. Pkt. 10c.

GERBERA (Transvaal Daisy). These are beautiful, daisy-like plants, slender and graceful, well-known greenhouse subjects that are largely used for conservatory decoration, but capable of being grown outdoors if the protection of a cold frame is given the plants during the winter months. We offer a splendid mixture of hybrids of this beautiful flower, shades ranging through red, cerise, salmon, orange, yellow and white. Pkt. 25c.

GERANIUM. Easily and quickly grown from seed. Sow thinly in boxes indoors, covering with glass until seedlings appear. When about 1 inch high, transplant to small pots in rather poor soil, firmly pressed down. Can later be re-potted or transferred to open garden.

Zonale. Extra choice, single mixed. The well-known bedding geranium. Pkt. 15c; ⅛ oz. 95c.

Lady Washington (Pelargonium). Foliage green, flowers large. Finest mixed. Pkt. 25c.

GODETIA. Bushy growth, profuse, constant bloomers. Colors rose, crimson, white and pink. Sow indoors in boxes and transplant. Succeeds in poor soil. Height 1 foot. Dwarf. Fine mixed. Pkt. 10c; ¼ oz. 35c.



HOLLYHOCK

GOURDS. Good climbers. For covering verandas and trellis work. Rapid growth, bearing fruits of curious shapes. Plant after soil is warm. 10 to 12 feet. Mixed varieties. Pkt. 10c; oz. 35c.

GYPSOPHILA. Easily raised from seed. Grows 18 to 24 inches, bearing beautiful, star-shaped flowers in great profusion. First sowings in flats very early and transplant, later sowings in open ground.

Grandiflora Alba. White. True. Convent Garden strain.

Grandiflora Rosea. Pink form of the above. Very desirable. Pkt. 10c.

HELICHRYSUM—Monstrosum (Straw Flower). Everlasting. One of the best for winter bouquets. Hardy annual. Red, yellow and white. Sow in open and transplant or thin to 12 inches.

Golden Ball. Scarlet, violet queen. Double mixed. Pkt. 10c; 1/4 oz. 25c.

HOLLYHOCKS—Hybrida Semperflorens (New Annual). This splendid variety will bloom in August, from spring planting, continuing until frost. A great advantage, as other varieties do not bloom until the second year.

Finest Semi-Double, Mixed. Finest Single, Mixed. Pkt. 10c.

HUNNEMANNIA (Giant Yellow Tulip Poppy or Bush Eschscholtzia). Best of the poppy family for cutting. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup yellow, poppy-like blossoms, and never out of flower until a hard frost. Height 2 to 3 feet. Pkt. 10c; oz. 75c.

HYACINTH BEAN (Dolichos Lablab). Rapid growing, ornamental, climbing annual, bearing clusters of beautiful purple and white flowers, followed by ornamental seed pods. Sow early where vine is to remain. Mixed. Pkt. 10c; oz. 15c.

ICE PLANT (Mesembrianthemum Crystallinum). Pretty summer trailing annual for vases and rock work. Leaves covered with ice-like drops. Sow seeds early in boxes. Height 6 to 12 inches. Pkt. 10c; oz. 75c.

KOCHIA CHILDSII (Summer Cypress). Forms symmetrical decorative bushes. Foliage green, turning fiery red in autumn. Sow in open and thin to 15 inches. Valuable for summer hedges. 1 to 2 feet. Pkt. 10c; oz. 35c postpaid.

LARKSPUR. The annuals are quite hardy and bloom in late summer months, furnishing flowers of striking beauty in form and color.

Exquisite Improved. Tall, double. A delightful pink.

Rose Carmine. Tall, double. A rich, novel color.

Tall, Double, Stock Flowered. Carmine, dark blue, light blue, rose, white or mixed. Pkt. 10c.

LINUM—Grandiflorum Rubrum (Scarlet Flax). One of the most showy bedding plants. Fine foliage, scarlet-crimson flowers. Pkt. 10c; oz. 45c postpaid.

LUPINUS—Hartwegi. Annual variety. Mixed. Pkt. 10c.

LOBELIA. Delicate, low-growing annual plants of the greatest value for borders, rock work and hanging baskets. Sow very thinly in boxes, covering with glass until seedlings are through soil. Height 6 to 8 inches.

Crystal Palace Compacta. Dwarf flowers, rich, bright blue. Finest for bedding and edging.

Gracilis. Blue, trailing. Beautiful for baskets.

Pumila Rosea. Dwarf, pink variety.

Sapphire. Deep blue with white eye. Trailing. Pkt. 10c.

MIGNONETTE (Reseda). A quick-growing, fragrant annual. Produces the largest and finest spikes of blossoms during cool, moist weather of early spring and late fall months, but will flower freely throughout the summer from seed sown early in spring.

Odorata Grandiflora. Large, fragrant flowers. Pkt. 10c.

MARIGOLD (Tagetes). A hardy plant in dwarf and tall varieties. Foliage bright green and deeply cut. Flowers are various shades of yellow and brown. Sow seeds early in flats and transplant to garden when 3 to 4 inches tall.

African Orange Ball. Double. African Lemon Ball. Double.

African Mixed. Tall or dwarf, double type.

French. Dwarf or tall, double, mixed. Tall, Double Striped. Mixed.

Golden Ball. New dwarf. French double, compact.

Josephine. Tall, single bi-color.

Little Brownies (Legion d'Honneur). Dwarf double.

Signata Pumila. Very dwarf, bright orange. Fine for border or rockery. Pkt. 10c.

MORNING GLORY. Rapid growing climbers of easy cultivation, attaining a height of 10 to 12 feet. The dwarf varieties flower very freely and do not require support. Plant early where it is to remain.

Convolvulus Major. Tall, choice single, mixed all colors. Pkt. 10c; oz. 15c.

Double Mixed. Tall. Pkt. 10c; 1/4 oz. 35c.

Imperial Japanese Fringed. Very large, fringed flowers in a variety of exquisite colorings; variegated foliage. Pkt. 10c; 1/2 oz. 40c.

MOON FLOWER (Ipomoea Mexicana Grandiflora). Rapid growing climber belonging to the "Morning Glory" family. At night and on cloudy days vine is covered with fragrant white flowers 4 to 5 inches in diameter. Pkt. 10c; 1/4 oz. 25c.

NASTURTIUMS. Hardy annuals of easy culture, blooming in uninterrupted splendor from early summer to frost.

Mixture Tall Varieties, pkt. 10c; oz. 15c; 1/4 lb. 50c.

Mixture Dwarf Varieties, pkt. 10c; oz. 20c; 1/4 lb. 60c.

DOUBLE NASTURTIUM (Golden Gleam). A new 1932 novelty. Rich golden yellow, sweet scented, semi-trailing habit. Produces an abundance of large, double flowers on stiff stems 6 inches in length. Pkt. 25c.

NICOTIANA. A showy plant, producing star-shaped flowers of delicious perfume. Taken up in the fall, cut back and potted, will bloom freely all winter. Half hardy annual. 3 feet high. Sow seeds in boxes indoors or in a sheltered situation in the open. For the best results give plenty of room, rich soil and sunlight. Mixed. Pkt. 10c; oz. 75c.

CUT FLOWER MIXTURE

This consists of a specially put up mixture of hardy annuals blended to give a continuous succession of cut flowers from early summer until late fall. For two seasons we have sold great quantities of these packets and they have evidently proved very desirable. Try one for your "surprise garden." Put up in ounce packets. Pkt. 25c.

PETUNIA (Hybrida). During the whole season it is covered with large, showy blossoms, always bright and fresh. An infinite variety of colors, markings and forms, large and small, fringed and plain, double and single. Hardy annual. Sow seeds very thinly indoors under glass. Care should be taken to save the weaker seedlings, as they produce the finest flowers. Transplant to garden when soil is warm.

LARGE FLOWERING SINGLE PETUNIAS—Giants of California. Choicest ruffled, mixed (large throat). Pkt. 25c.

Dwarf Giants of California. Compact form of the above. Excellent for potting or border planting. Pkt. 25c.

Elks' Pride. Deep purple, very large flowers. Pkt. 35c.

City of Portland. Finest shade of pink. Flowers large and ruffled. Pkt. 35c.

General Dodds. Blood red, supplying an abundance of bright color. Pkt. 25c. Single Choicest Mixed, pkt. 10c.

LARGE FLOWERING DOUBLE PETUNIAS.

Double Choicest Mixed, pkt. 35c.

Double Fringed Mixed, pkt. 50c.

SINGLE BEDDING PETUNIAS.

Balcony Blue. A splendid, free flowering type for bedding, vases, window boxes, hanging baskets, etc.

Balcony Rose. Brilliant rose pink. Very effective.

Balcony White. Pure white form.

Pkt. 10c. One packet each of the above Balcony Petunias for 25c.

Rose of Heaven. Dwarf, rich rose-pink. Most exquisite shade in petunias. Pkt. 10c; $\frac{1}{8}$ oz. 60c.

Rosy Morn. Pink, white throat. Fine for bedding. Pkt. 10c.

PINKS (Chinensis Type).

Single Mixed, pkt. 10c; $\frac{1}{4}$ oz. 25c postpaid.

Double Mixed, pkt. 10c; $\frac{1}{4}$ oz. 35c postpaid.

PINKS (Heddewigii Type).

Finest Single Mixed, pkt. 10c; oz. 75c.

Fireball. Double scarlet. Pkt. 10c; $\frac{1}{4}$ oz. 60c.

Salmon King. Double. Pkt. 10c; $\frac{1}{4}$ oz. 65c.

Snowball. Double white. Pkt. 10c; $\frac{1}{4}$ oz. 65c.

Finest Double Mixed, pkt. 10c; $\frac{1}{4}$ oz. 30c.

PORTULACA (Rose Moss). Brilliant dwarf annuals, only 6 inches high, blooming profusely in early summer to autumn. Colors range red, yellow, pink, white, striped, etc. Sow seeds indoors. Thrive best in hot and dry situation.

Single Mixed, pkt. 10c; $\frac{1}{4}$ oz. 45c.

Double Mixed, pkt. 10c; $\frac{1}{8}$ oz. 75c.

POPPIES

Magnificent, showy flowers borne separately on tall stalks in many bright and charming colors. Sow seeds very early where they are to remain. Barely cover seed with fine soil and press down firmly. Thin to 1 foot. If cut before fully open, blossoms will last several days.

CARNATION FLOWERED (Tall Double).

Finest Mixed, pkt. each 10c; oz. 40c postpaid.

King Edward. Single, large flowers, produced with great profusion. Deep scarlet, shaded crimson, with large, black blotch. Height 2½ feet.

Pkt. 10c; $\frac{1}{4}$ oz. 25c postpaid.

Glaucum (Tulip Poppy). Brilliant scarlet flowers, 3 inches across. Pkt. 10c; oz. 75c postpaid.

CALIFORNIA (Eschscholtzia). Commence to bloom within a few weeks' time from spring-sown seed and flower profusely until late autumn. Bushy plants, 1 to 1½ feet.

Aurantiaca. Rich orange, true California poppy.

Pkt. 10c; oz. 35c postpaid.

Hybrida Mixture. New, large flowering type. New colors, including soft pink, scarlet, chrome, copper-red, claret and royal purple. Pkt. 10c; $\frac{1}{2}$ oz. 50c postpaid.

FLANDERS POPPY. Native of Flanders fields. Bright, satiny scarlet. Pkt. 10c.



PANSY SEED

Adonis. A beautiful shade of light blue with white center and dark blotch. Pkt. 10c.

Cornflower Blue. Dainty blue. Large. Pkt. 10c.

Giant Dark Blue. A splendid blue-black. Pkt. 10c.

Giant Striped. A superior strain of truly giant Pansies, with the most beautiful striped markings. Pkt. 10c.

Golden Queen. A rich, pure yellow of the grandest form and size. Pkt. 10c.

King of the Blacks (Giant). Immense velvety flowers. The largest and best black Pansy. Pkt. 10c.

Madame Perret. A beautiful and distinct type with edges of petals frilled, bordered White. Colors are dark wine, pink and red, beautifully veined. The earliest of the giants. Has the sweetest perfume. Pkt. 10c.

Snow Flake. Pure white. Of extra fine quality. Pkt. 10c.

Violet Blue. A new giant variety. Brilliant dark indigo blue with violet luster, edges slightly ruffled. Pkt. 10c.

Masterpiece (Giant Ruffled). The mammoth size, richness and beauty of colorings and frilled or ruffled character of the petals make Masterpiece one of the most distinctive and interesting Pansies. Pkt. 10c.

One packet each of above named varieties, 10 in all, for 75c.

TRIMARDEAU PANSIES. Remarkably large size. Robust grower. Excellent colors. Pkt. 10c; $\frac{1}{4}$ oz. 85c; oz. \$3.

Oregon Giant Pansies Mixed

A selection of the finest strains and named varieties from American and foreign growers grown separately and carefully blended. This seed is gathered by hand from selected plants grown here in Oregon and will produce plants and flowers of unsurpassed quality.

Pkt. 10c; $\frac{1}{4}$ oz. \$1.25; oz. \$4.50.

PHLOX DRUMMONDI. Annual. Unrivalled for richness and beauty of color ranging from white to the deepest scarlet and purple. For cutting, for bouquets or for bedding in masses they are unsurpassed. Hardy annual. 1 foot high. Sow as soon as soil is warm. Transplant about 1 foot apart.

Large Flowering. Crimson, white or mixed.

Pkt. 10c; $\frac{1}{8}$ oz. 50c.

Chamois Rose. Isabellina. Pale yellow. Pkt. 10c; $\frac{1}{4}$ oz. 75c.

Star Phlox (Cuspidata). Flowers have a distinctive, star-like appearance, with white margins. Excellent for bouquets. Pkt. 10c; $\frac{1}{4}$ oz. 75c postpaid.



SHIRLEY POPPIES. Beautiful, satiny flowers of various colors from white through rose, pink and carmine to the deepest crimson. Fine for cutting and will keep fresh in water for several days if cut before blooms are fully expanded.

- Eldorado. Double, pink. Pkt. 10c; $\frac{1}{4}$ oz. 40c.
- Eldorado Double Mixed. Pkt. 10c; $\frac{1}{4}$ oz. 25c.
- Flesh Pink. Pkt. 10c; $\frac{1}{4}$ oz. 35c.
- Finest Mixed. Pkt. 10c; oz. 40c.

SALVIA (Flowering Sage). Very ornamental. Flowers borne in spikes of fiery red or crimson. Continues to bloom in open ground until after severe frosts. Start in heat and transplant into light soil, 1 to 2 feet apart.

- Zurich (New Dwarf Early). The finest of all Dwarf Salvias. Very floriferous. Pkt. 10c.
- Splendens. Brilliant scarlet. Pkt. 10c.
- Bonfire (Clara Bedman). One of the finest ever introduced; compact bush, about 2 feet in height and diameter. Pkt. 10c.

SALPIGLOSSIS (Painted Tongue). One of the very finest annuals, succeeding in any good ordinary soil and in a sunny position. Plants grow 24 to 30 inches high, and produce freely from midsummer until frost, in a very unusual range of colors. They are splendid for cutting. Seed may be started indoors about the end of March, or sown outdoors when danger from frost is past and the ground is in good condition. Should not be set closer than 12 inches apart.

- Purple and Gold, Rose and Gold, Crimson and Gold, Yellow. Pkt. 10c.
- Collection of a packet each of the above 4 sorts, 35c.
- Finest Mixed, all colors, pkt. 10c.

SCABIOSA (Sweet Scabious or Mourning Bride). Free flowering annuals. White, carmine, lilac, maroon, etc. Effective for garden decoration and valuable for cutting. Sow seeds in open as soon as soil is warm, thinning to 8 to 10 inches. Blooms from early July until frost. Height 2 to 2½ feet.

- Azure Fairy, Fiery Scarlet, Loveliness-pink and Double Mixed. Pkt. 10c; oz. 75c.

NEMESIA. A splendid border plant with the widest range in color. Is very early, a continuous bloomer and stands a lot of hardship. If topped and watered when beginning to seed it will start blooming all over again. The orchid-like flowers vary in color, blue, orange, rose, yellow, etc.

- Blue Gem. Triumph Mixed, pkt. 10c.

SCHIZANTHUS (Butterfly Flower.) Beautifully fringed and delicately colored flowers so numerous as to hide the foliage. Splendid bedding plant. Seeds sown in open come into bloom in a few weeks. Fine pot plant for house in winter. Height 1 to 2 feet.

- May Blossom. Beautiful rose-pink. Pkt. 10c; $\frac{1}{4}$ oz. 95c.
- Brilliant Mixed (Excelsior). Newest bright shades. Pkt. 10c; $\frac{1}{4}$ oz. 95c.

SNAPDRAGON (Antirrhinum). One of the showiest border plants of almost every color; splendid for cut flowers. Greatly improved in recent years and really magnificent. Plant indoors very early, transplanting when about 3 inches high. Height 2 to 3 feet.

TALL GIANT FLOWERED.

- Canary Bird. Bright yellow. Pkt. 10c.
- Copper King. Bronze. Pkt. 10c.
- Scarlet. Pkt. 10c; $\frac{1}{4}$ oz. 25c.
- Golden King. Pkt. 10c; $\frac{1}{4}$ oz. 25c.
- Rose Queen. Pink. Pkt. 10c; $\frac{1}{4}$ oz. 30c.
- Ruby. Bright red. Pkt. 10c.
- Mixed Varieties. Pkt. 10c; $\frac{1}{2}$ oz. 50c.

MEDIUM TALL VARIETIES (Florist Strains). Purity, pure white; Harmony, bronzy apricot; Nelrose, deep rose; Philadelphia, pink; Defiance, orange scarlet; Empress, velvety crimson; Silver Pink.

- Rose Dore. Rose, suffused with orange.
- Golden Queen. Giant yellow. Pkt. 10c; $\frac{1}{4}$ oz. 50c.
- Mixed Varieties. Pkt. 10c; $\frac{1}{4}$ oz. 25c.

SWEET WIVELSFIELD. A new, hardy annual, cross between Dianthus Allwoode and Sweet William, yet distinct from either. Few plants can compare with it for wealth of color and prolific blooming qualities. Recommend for garden show rockeries or cut flowers. Will delight any gardener. Offered in mixture only. Pkt. 15c.

STOCKS. These popular flowers are easily grown and are so highly fragrant and of such beauty that they deserve a place in every garden. Should be sown under glass in a warm place, giving plenty of air after seedlings are up. Transplant when about 2 inches high.

IMPERIAL LARGE FLOWERING TEN WEEKS.

- Choice Mixed. Pkt. 10c; $\frac{1}{8}$ oz. 75c.

GIANT PERFECTION—Perpetual or Branching. These everblooming stocks are popularly called "Cut and Come Again." Sown in March, they flower profusely from July until frost, their best period being late autumn. Very fragrant.

- Princess Alice, white; La France, blush pink; Brilliant, blood red; Sapphire, violet; Creole, canary yellow; May Queen, pale blue; Rose Pink; Choice Mixed. Each, pkt. 10c; $\frac{1}{4}$ oz. 75c.

Virginian Stocks. A fine, early flowering plant. Hardy annual. Rose or mixed. Pkt. 10c; $\frac{1}{4}$ oz. 15c postpaid.

Evening Scented Stock (Matthiola Bicornis). Old-fashioned annual with an entrancing fragrance. Pkt. 10c.

THUNBERGIA (Black-Eyed Susan). Rapid growing, annual climbers. Splendid for trailing over trellises, fences, etc. Buff, white, orange. 4 to 6 feet high. Grows readily from seed sown in the open.

- Mixed Colors. Pkt. 10c; $\frac{1}{4}$ oz. 45c.

VERBENA. Start seed in the house or under glass early in spring and transplant after 3 to 4 inches of growth. They flower in July and until frost. Height 8 to 12 inches.

- Golden Queen, Scarlet Defiance, Pink Shades. Mammoth mixed. Any of the above Verbenas, Pkt. 10c; $\frac{1}{4}$ oz. 50c.

VIOLET. Deep blue. Fragrant. Pkt. 10c.

TREAT YOUR SEED WITH A MODERN DISINFECTANT

- SEMESAN for flower and vegetable seeds.
 - SEMESAN, Jr. for field and sweet corn.
 - SEMESAN BEL for potatoes.
 - CERESAN for seed treatments of small grains.
- Write for free booklets.

Early Flowering Spencer Sweet Peas

The New "Spencer" type has lovely waved, fluted flowers of giant size. In exquisite colorings, length of stem and lasting qualities they are superior to older types. Our famous "Diamond Quality" Sweet Peas are selected with critical care and we offer the best productions of the foremost growers.

CULTURE. Plant as early in the spring as conditions will permit. Sow at rate of 1 ounce to 15 feet. Make a trench 3 to 4 inches deep, pressing soil down firmly. After plants are well up, thin to 4 or 5 inches apart, draw soil around them until trench is filled above the level. This gives depth to the roots, preserving moisture. Keep ground well worked and water if needed, an occasional thorough soaking being better than a daily sprinkling. Keep flowers cut close. Pruning tips of vines will aid in prolonging the season of bloom and insure better flowers.

Pkt. 10c; ½ oz. 25c; 1 oz. 45c; ¼ lb. \$1.50 postpaid.

EARLY MARINE. The clearest true blue of all.
EARLY COLUMBIA. Best pink and white.
EARLY GIANT ROSE. Warm rose pink.
EARLY HARMONY. Beautiful lavender, waved.
EARLY ORIENTAL. Clear deep cream.
EARLY SILVER BLUE. Light shade of lavender.
EARLY SNOWSTORM IMPROVED. Giant pure white.
EARLY APOLLO. Soft salmon cerise.
EARLY VULCAN. Brightest scarlet. Sun-proof.
EARLY WHITE HARMONY. Glistening pure white.
EARLY PRIDE. Deep cerise tinged with scarlet.
EARLY SPRINGSONG. Bright rose pink flushed salmon.
EARLY SPENCER MIXED. A well blended mixture, containing all of the above shades and more.

Pkt. 10c; oz. 25c; ¼ lb. 75c postpaid.

Collection of Early Flowering Spencer Sweet Peas

1. Early Spring Song.
2. Early Vulcan.
3. Early White Harmony.
4. Early Pride.
5. Early Marine.
6. Early Columbia.
7. Early Harmony.

7 Packets—Value 70c for 50c Postpaid

GENERAL LIST of SWEET PEAS

Our wonderful Diamond Quality Superb Spencers, with giant size, waved and fluted flowers, are so superior to the older types you will have the greatest of pleasure in your sweet pea garden. We have selected the very best in each color to offer you this season.

Pkt. 10c; ½ oz. 20c; oz. 35c; ¼ lb. 90c postpaid.

Pink and Cream

ASCOT. Clear light rose pink.
WHAT JOY. Large, primrose, shaded to cream.
PINKIE. Large flowers in fours. Deep rose pink.
MARY PICKFORD. Cream pink, faintly tinted salmon.
MAGNET. Rich cream pink.
WINNIE MORSE. Cream ground, lightly flushed rose pink, duplexed, frilled.

Red and Maroon

WELCOME. The most dazzling of all scarlets.
CHARMING. Brilliant, rosy cerise.
FLAMINGO. Orange scarlet cerise.
SYBIL HENSHAW. Giant. Deep crimson.
DOREEN. Huge, bright, rose carmine.
WARRIOR. Rich oxblood maroon.



Orange and Salmon

BARBARA. Beautiful shade of orange salmon.
GOOD CHEER. Charming begonia rose.
GLORIOSA. Bright, orange scarlet.
IDYL. Giant flowers in fours. Salmon pink. Waved.
ROYAL PINK. Large, pure pink.
CELEBRITY. Brilliant orange.
TANGERINE IMPROVED. Rich salmon orange.

Lavender, Blue and Mauve

AUSTIN FREDERICK IMPROVED. Pure lavender.
POWERSCOURT. Clearest lavender.
FORTUNE. Rich, dark blue.
GLENEAGLES. Lavender blue.
OLYMPIA. Giant, rich purple.
REFLECTION. Clear cornflower blue.
CHIEFTAIN. Pure satiny mauve (deep lavender).

White and Picotee

YOUTH. Pure white edged soft pink.
AVALANCHE. Giant, pure white.
STANDARD SPENCER MIXED. A splendid mixture, containing many of the varieties in our general list of Spencers.
 Pkt. 10c; oz. 25c; ¼ lb. 75c postpaid.

Collection of "Superb Spencer" Sweet Peas

1. Sybil Henshaw.
 2. Avalanche.
 3. Olympia.
 4. Ascot.
 5. Good Cheer.
 6. Warrior.
 7. Austin Frederick Improved.
- 70c Value Postpaid for 50c



ZINNIAS

DAHLIA FLOWERED. The plants of this race are very sturdy and produce many flowers with stout stems. The flowers in full bloom often measure 4 inches in depth and 6 inches in diameter. Easily grown from seed sown in the open in April.

Exquisite. Light rose, center a deep rose.

Golden State. Rich, orange yellow.

Crimson Monarch. Largest and best red.

Dream. Fine, deep lavender, turning to purple (mallow).

Old Rose. For charm and beauty ranks next to Exquisite.

Scarlet Flame. Bright scarlet with a blending of orange.

Oriole. Immense orange and gold bi-color.

Meteor. A rich, glowing, deep red, the darkest of all.

Mixed. All colors, dahlia flowered.

Any of the above varieties, pkt. 10c; 6 pkts. 50c; 1/8 oz. 85c.

Double Giants. A special strain, producing mostly double flowers of immense size. Plants are of extremely robust growth. Height about 3 feet. Mixed. Pkt. 10c.

Dwarf Double Zinnias. Best bedding variety. All colors mixed. Pkt. 10c; oz. \$1.85.

Elegans Lilliput Zinnias. Small, double flowers. Excellent for borders. Salmon Rose, Scarlet Gem, or all colors mixed. Pkt. 10c.

WILD GARDEN MIXTURE

In this we offer a splendid collection of hardy annuals consisting of special selections from a 50-acre trial grounds, wild flowers and standard sorts, to meet the demand for odd corner mixtures or to beautify the vacant lot where cultivation is difficult and weeds predominate. 1 oz. pkt. 10c.

ASPARAGUS SPRENGERI (Emerald Feather). One of the best of the so-called Ferns. Feathered foliage. Useful for bouquets, wreaths or sprays, remaining perfect for weeks after cutting. Seeds should be sown under glass with night temperature of about 65 degrees. Will germinate in 4 to 6 weeks. Height 2 to 4 feet. Pkt. 10c.

ASPARAGUS PLUMOSUS (Asparagus Fern). One of the prettiest house plants. The leaves are bright green, graceful arched, surpassing Maidenhair ferns in grace, delicacy of texture and richness of color. Culture same as Sprengeri. Height 6 to 12 feet. Pkt. 25c; 1/8 oz. 95c.

COLEUS. Popular ornamental foliage plants. Leaves of all shades and colors. Tender perennial. Sow seeds in flats indoors. Transplant seedlings to other flats until settled warm weather, then transplant to open garden. Pot for house culture before frost. Height 1 to 2 feet. Extra Choice Mixed. Pkt. 25c.

CALCEOLARIA. Beautiful flowers of unique form and colors, ranging from red, yellow, brown and orange. Fine for pot culture. Should be sown in flats very thinly, covered lightly with sifted soil, firmly pressed down.

Hybrida. Finest mixed. Pkt. 50c.

Rugosa (Rain of Gold.) Pure yellow form of the above. Fine for window boxes. Pkt. 50c.

CANNA (Indian Shot). Large, ornamental, tropical-looking plants of easy culture. Soak seeds in warm water for several hours, or until they commence to swell, then plant under glass. When second leaf appears, transplant into pots and keep under glass until soil outside is warm. Colors red and yellow. Height 2 to 6 feet.

Crozy's Best Mixed. Pkt. 10c; oz. 50c.

CYCLAMEN (Persicum Giganteum). Beautiful winter and spring flowering plants.

English Type. Cherry Ripe, red; Salmon King, salmon pink. Pkt. 25c.

German Type. Glowing Red, Christmas Red, Rose of Zehlendorf, rose pink. Pkt. 25c.

DRACAENA. Palm for porch boxes, tubs, etc. Very desirable. Narrow, dark foliage.

Indivisa Lineata. Pkt. 10c; 1/4 oz. 30c.

HELIOTROPE. Flowers in large clusters of lovely shades of blue. Delightfully fragrant and free blooming. Splendid for bedding, pot culture or bouquets. Start under glass very early in the spring, transplanting in pots or open garden. Will bloom in 2 to 3 months.

Fine Mixed. Pkt. 10c; 1/8 oz. 50c.

LANTANA. A free-flowering shrubby plant, suitable for outdoor or pot culture. The flowers emit an agreeable odor and are of many shades of purple, orange and white. Half hardy perennial. Sow seeds thinly in boxes indoors, covering very lightly. Transplant to garden when 2 to 3 inches high. Height 1 to 2 feet.

Hybrida Fine Mixed. Pkt. 10c; 1/4 oz. 20c.

PRIMULA (Primrose). Some are hardy, early blooming, garden plants; others beautiful winter blooming house plants. Soak seeds in warm water for 24 hours, then sow thinly in shallow boxes of soft, sandy soil; cover lightly with sand. Press down firmly. Keep under glass until sprouted.

Polyanthus. Early blooming, dwarf growing plants. Valuable for outdoor bedding. Mixed colors. Pkt. 25c.

Vulgaris. Yellow English Primrose. Pkt. 25c.

Primula (Obconica Grandiflora). Beautiful single flowers. This is really an everblooming plant, producing elegant clusters of lavender pink flowers throughout the year. Fine mixed. Pkt. 25c; 1/64 oz. \$2.25.

Smilax (Medeola Asparagoides). Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of pleasing light green. Excellent for decoration. Pkt. 10c; 1/4 oz. 20c.

SPRINGTIME COLLECTION

"QUICK GERMINATING, FREE
FLOWERING ANNUALS"

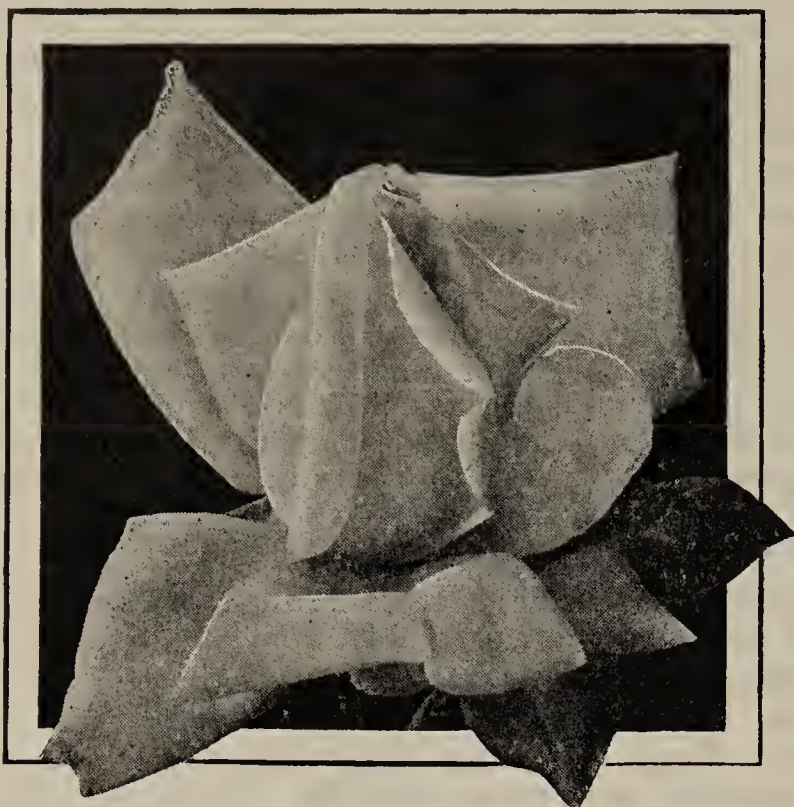
10 Pkts. \$1 value. One each of varieties below 75c

Postpaid for	
* 1. Asters, California Giants	10c
* 2. Zinnias, mixed	10c
† 3. Shirley Poppies, mixed	10c
† 4. Candytuft, mixed	10c
† 5. Sweet Alyssum	10c
† 6. Clarkia, Elegans, mixed	10c
* 7. Cosmos, mammoth, mixed	10c
† 8. Calendula, double, mixed	10c
† 9. Annual Hollyhock, mixed	10c
* 10. Helichrysum (strawflower)	10c

† Early flowering.

* Late flowering.

All favorites. Try this collection.



PINK MAMAN COCHET

HYBRID TEA ROSES

Your Choice 40c each or 3 for \$1.00 Postpaid.

- British Queen—Pure white.
 Chas. K. Douglas—Scarlet crimson.
 Dame Edith Helen—Pink.
 Dorothy Page Roberts—Coppery pink suffused yellow.
 Duchess of Wellington—Saffron yellow.
 Edward Mawley—Rich velvety crimson.
 General McArthur—Crimson scarlet.
 Hoosier Beauty—Crimson scarlet with darker shadings.
 Imperial Potentate—Rosy carmine, beautiful buds.
 Irish Elegance—Bronze pink buds opening yellow.
 Irish Fireflame—Large orange-crimson.
 Isobel—Single crimson, yellow center.
 Killarney—Deep shell pink lightened with silver.
 K of K—Intense pink semi-single.
 La France—Silvery pink tinged with crimson.
 Maman Cochet—Rosy pink shaded silvery rose.
 Miss Lolita Armour—Yellow, base coppery orange.
 Mme. Butterfly—Pink suffused apricot and gold.
 Mme. Caroline Testout—Bright satiny pink.
 Mrs. Chas. E. Russell—Rose pink.
 Ophelia Orange—Salmon buds opening pink.
 Padre—Coppery scarlet flushed yellow at base.
 Souvenir de Georges Pernet—Oriental red, yellow shaded.
 Sunburst—Yellow, suffused orange center.

HYBRID PERPETUAL ROSES

Your Choice 40c each or 3 for \$1.00 postpaid.

- American Beauty—Large rich rosy crimson.
 Frau Karl Druschki—Double white.
 General Jacqueminot—Crimson, rich fragrance.
 Geo. Dickson—Large blackish crimson.
 Hugh Dickson—Glowing crimson, shaded scarlet.
 Ulrich Brunner—Large crimson, scarlet flamed.

HARDY CLIMBING ROSES

Your Choice 40c each or 3 for \$1.00 postpaid.

- American Beauty—Rich crimson.
 Dr. Van Fleet—Large shell pink.
 Dorothy Perkins—Rambler pink, red and white.
 Frau Karl Druschki—White American Beauty.
 General McArthur—Crimson scarlet.
 Hiawatha Rambler—Ruby-crimson, clear white eye.
 Hoosier Beauty—Crimson shaded to black.
 Kaiserin A. Victoria—Large ivory white.
 Lady Ashtown—Large, rose-colored.
 Mme. Caroline Testout—Pink rampant climber.
 Paul's Scarlet Climber—Shining scarlet, semi-double.
 Pink Cherokee—Large single, light pink.
 Silver Moon—Single, silvery white.
 Tausendschon Rambler—Soft pink clusters.
 William A. Richardson—Coppery-yellow, flushed carmine.

CLENSEL CONCENTRATED

Spray for roses and other plants. Prevents mildew, aphids, red spider. Non-poisonous. Dilute 1 to 50.
 ½ pint 50c; pints 75c; quarts \$1.50 postpaid.

Cactus and Hybrid Cactus Dahlias

- Ambassador, H. C.—Giant yellow, orange center.....\$0.75
 Alphonsine—White incurved flower......60
 Ballet Girl—Immense, orange petals edged white......50
 Bob Pleuse—Giant wine maroon, tipped white......50
 Britisher—Large, crimson incurved petals......35
 Golden West—Deep rich yellow overlaid with orange.. .50
 Cigarette—Creamy-white edged with orange......50
 Chemar's Masterpiece—Huge, double orchid-pink 1.00
 Eterdnand de Lyon—Carmine-rose35
 Fernand Olivet—Large free, maroon, darker center... .25
 La Farovita—Brilliant salmon, dark center, pink points .50
 Maude Hastings—Very soft yellow, prolific bloomer.... .35
 Mrs. Edna Spencer—Soft lavender pink......35
 Mrs. Douglas Fleming—Large, white flowers......35
 Romany—Large bright geranium scarlet......50
 Velvet—Velvety maroon, free flowering......50
 Walter Deegan—Fiery scarlet, suffused with orange.. .25

Collarette Dahlias

- Geants De Lyon—Large deep garnet, crimson golden collar\$0.35
 Sonate—Light orange red, yellow collar......35

Show Dahlias

- Anna Rehorst—Rich deep purple.....\$0.35
 White Livoni (Gill)—Pure white, long erect stems..... .35
 Golden Opportunity—Giant deep golden yellow..... .35
 Black Diamond—Very dark maroon, almost black..... .35
 W. W. Rawson—White overlaid with amethyst blue.... .35

Peony Flowered Dahlias

- City of Portland—Deep yellow\$0.50
 Mrs. Julius Meier (Gill) Giant—Centers deep yellow with major part of petals rich deep salmon..... 1.00
 Oregon Sunset—Golden yellow, suffused brown..... .35
 Pearl Ruggles—Giant carmine rose35
 Squanto—Reddish violet35
 Supreme (Gill) Giant—Clear lavender pink75
 The Oriole—Combination burnt orange, red, yellow, tipped white50

Pompons

- Ace of Diamonds—Small, bright red flower.....\$0.25
 Alex—Light cerise, faintly tipped silver25
 Amber Queen—Rich amber, shaded apricot......25
 Belle of Springfield—Smallest bright brick red......25
 Bobby—Deep plum25
 Eureka—Rich bronze, shading to yellow25
 Girlie—Small, rosy lavender25
 Geo. Ireland—Dainty mauve25
 Ideal—Pure canary yellow25
 Joe Fette—Pure white. Small perfect blooms......25
 Little Jim—Deep garnet. Long erect stems25
 Little Jewell—Decorative, small, peach pink......35
 Rhoda—Decorative, glowing orange rose......35
 San Toy—White, tipped carmine......25
 Vivid—Rich, bright scarlet25

Decorative Dahlias

- Andy Gump—Bright red, free flowering.....\$0.50
 Al Koran—Giant goldenrod yellow35
 Claude Harland—Giant double lavender. Free flowering .35
 Champagne—Large copper to dull gold......50
 Earl Williams—Immense scarlet, tipped white......50
 El Dorado—Vivid gold50
 Jane Cowl—Bronze buff and old gold......50
 Jersey Beauty—Pink. Prize winner75
 Le Grande Manitou—Large white violet, purple spotted .50
 Marcella—Clear soft pink25
 Mission Belle—Immense old rose and pale lavender.... 1.00
 Marmion—Giant golden yellow75
 Mr. Crowley—Exquisite salmon-pink50
 Millionaire—Light lavender, white center......50
 Mrs. Carl Salbach—Lavender-pink50
 Mrs. I. De ver Warner—Orchid-pink35
 Pride of California—Red, long keeper......35
 Rosa Nell—Clear, bright cerise-rose.50
 St. Francis—Soft cream, pinkish glow35
 Sequoia Gigantea—Buttercup yellow35
 Souvenir de Gustave Doazon—Scarlet......35
 Syncopation—Combination buff, yellow, cherry-red center75
 The Grizzly—Crimson-maroon50
 Tommy Atkins—A giant lustrous flaming scarlet..... .60

DECIDUOUS SHRUBS

Deliveries made from November until May.

ALMOND (*Prunus*) Pink flowering (*P. Japonica*) Dwarf shrub. Height at maturity 4 feet. Shipping size 18-24 inches. 75c each.

ALTHEA (*Rose of Sharon*). Late summer blooming. Colors pink, white or red. Maturity height 10 feet. Shipping size 30-36 inches. Each 75c.

AZALEA (*A. Mollis*). In early spring is covered with gorgeous flowers before the leaves appear. Colors mostly orange, yellow and salmon pink. Maturity height 6 feet. Shipping size 12-18 inches. Each \$1.75.

BUDDLEYA (*Magnifica*: Summer Lilac). Slender branches that terminate in flowers of lavender blue. Commences to bloom in June and continues until frost. Height 6 feet. Shipping size 24-30 inches. 2-year plants. Each 75c.

CALYCANTHUS (*Floridus*: Sweet-scented Shrub). Double, dark crimson flowers, very fragrant and blooms all season. Maturity height 5 feet. Shipping size 15-18 inches. Each 75c.

CEANOTHUS HYBRIDUS (*Marie Simon*). Plumy flower sprays light salmon pink. Plant in sunny locations only. Each \$1.25.

BECHTEL'S FLOWERING CRAB. Bears masses of double rose-like flowers. Tree shape. Maturity height 10 feet. Shipping size 3 feet. Each \$1.00.

DEUTZIA. Especially suited for shady positions. Low growing, slender branches, covered with a profusion of flowers. White with blush of pink in the bud. Shipping size 12-15 inches. Each 75c.

LEMOINE'S (*D. Lemoinei*). Flowers in large clusters of pure white. Grows to 6 feet high. Shipping size 24-30 inches. Each 75c.

FORSYTHIA (*Golden Bell*). Blooms in dense masses of golden-yellow flowers in early spring. Shipping size 30-36 inches. Each 75c.

HONEYSUCKLE (*Bush: Pink Tartarian*). Bushy, upright growth. Flowers freely. Red and orange berries stay on until fall. Maturity height 8 feet. Shipping size 18-24 inches. Each 75c.

HYDRANGEA (*Japanese Otaksa*). Blue and white. Maturity height 4 feet. Shipping size 12-18 inches. Each 75c.

PANICULATA GRANDIFLORA (*Tree Hydrangea*). Grows to 6 feet high. Pure white afterwards changing to pink. Shipping size 24-30 inches. Each 75c.

LILAC (*Syringa Vulgaris*) Common (Not Grafted). Single, white or purple. Maturing height 15 feet. Shipping size 30-36 inches. Each 75c. Grafted, double or single, white or purple. Maturity height 15 feet. Shipping size 2-3 feet. Each \$1.00.

MOCK ORANGES (*Syringa*). White, creamy flowers, very fragrant. Maturity height 12 feet. Shipping size 30-36 inches. Each 75c.

PRUNUS (*Flowering Prunes*)

P. Bleriana. Double pink. Maturity height 20 feet. Shipping size 4-5 feet. Each \$1.00.

QUINCE (*Japanese Flowering*). Scarlet flowers before leaves appear. Maturity height 4 feet. Shipping size 18-24 inches. Each 75c.

SPIREA. Flowers red in dense spikes. Blooms most of summer. Maturity height 4 feet. Shipping size 24-30 inches. Each 60c.

Blue Spirea. Autumn blooming bright blue. Maturity height 4 feet. Shipping size 18-24 inches. Each 60c.

Crimson Spirea. Deep red flowers, blooming all summer. Fine for foreground planting. Maturity height 4 feet. Shipping size 24-30 inches. Each 60c.

Thunbergii. Spirea. Maturity height 4 feet. Shipping size 18-24 inches. Each 60c.

Van Houttei's Bridal Wreath. Flowers white in clusters. May. Maturity height 6 feet. Shipping size 24-30 inches. Each 60c.

SNOWBALL. Flowers globular, pure white, in May. Maturity height 12 feet. Shipping size 24-30 inches. Ea. 60c.

WEIGELIA. Free-flowering shrub. Maturity height 12 feet. Shipping size 24-30 inches. Each 75c.

DECIDUOUS TREES

Shade and Ornamental

BIRCH. White, common, 5-6 feet. Each \$1.25. Cut Leaf (*B. Alba*) Silvery-white bark, slender, drooping branches, 5-6 feet. Each \$1.25.

CATALPA. Splendid trees. White flowers, bright foliage. 5-6 feet. Each \$1.25.

Catalpa Bungei. Dwarf, dense, round-headed variety. Much in outline like the popular Bay trees, but is hardy and better adapted for the garden. 5-6 feet. Each \$3.

ELM. American White, drooping branches, 5-6 feet. Each \$1.25. English. Erect and compact, 5-6 feet. Each \$1.25.

HAWTHORNE. Paul's Double Scarlet. 5-6 feet. Each \$1.25. 6-8 feet. Each \$2.00.

MAPLE. Norway. 5-6 feet. Each \$1.25.

MOUNTAIN ASH. European. White flowers, red berries. 5-6 feet. Each \$1.25.

LAURUSTINUS. Dark green foliage. Small, white flowers. Very hardy. Maturity height 10 feet. Shipping size 10-18 inches. Each 60c.

PRIVIT. California. Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants. Maturity height 10 feet. Shipping size 18-24 inches. 10 plants \$1.00; 100, \$7.50. English. Hardy. Leaves smaller. Maturity height 10 feet. Shipping size 18-24 inches. 10 plants \$1.00; 100, \$7.50. Golden. Variegated. Maturity height 10-12 feet. Shipping size 2 feet. Each 75c.

PYRACANTHA (*Crataegus*). Long, narrow, green leaves, small white flowers, followed by berries that stay on all winter. Maturity height 15 feet. Shipping size 12-18 inches. Each \$1.00.

WEeping WILLOW. Large, glossy leaves, pendulous habit. 5-6 feet. Each \$1.25.

EVERGREEN SHRUBS

ABELIA (*Grandiflora*). Small, glossy leaves and tubular-shaped flowers of a blush-pink color. Maturity height 5 feet. Shipping size 18-30 inches. Each \$1.00.

ACUBA (*Japanese Laurel*). Gold Dust Laurel. Do not expose to extreme hot sun. Maturity height 5 feet. *Japonica Variegated*. Yellow, spotted leaves. *Japonica Green*. Dark, glossy, green leaves. Shipping size 18-24 inches. Each \$1.25.

AZALEA. Crimson. Bright, minute, waxy foliage. Loaded in early spring with masses of scarlet flowers. Thrive best in cool, moist situation. Do not plant in full sunlight. Excellent for massing or in front of other shrubs. Maturity height 3 feet. Shipping size 10-12 inches. Each 1.50. Small plants, each 85c.

BOXWOOD. Small leaves of dense, compact growth. Globe form 12 to 15-inch spread, 15-18 inches high. Each \$1.50. Small plants, each 50c. For hedges write for prices on quantity desired.

DAPHNE (*China and Japan*). *D. Odora Marginata* (Pink Daphne). Blooms early spring. Height 4 feet. Shipping size 18-24 inches. Each \$1.50.

CAMELIA (*China and Japan*). Small trees with shining waxy leaves and flowers. Thrive best in partial shade. Height 10 feet. Shipping size 12-18 inches. Each \$2.50. Small plants, each \$1.50.

COTONEASTER (*C. Franchetti*; *China*). Pink flowers, red berries in the fall. Maturity height 6-8 feet. Shipping size 30-36 inches. Each \$1.50. Small plants, each 75c. *C. Horizontalis* (Trailing). Nearly deciduous. Leaves small, turn red in winter. Berries red, stay all winter. Excellent for terrace, hardy. Maturity height 2 feet. Shipping spread 15-18 inches. Each 75c. *C. Simonsii*. Excellent background between shrubs when height is desired. Branches covered with bright red berries. Of quick growth. Maturity height 10-12 feet. Shipping size 18-24 inches. Each 75c.

LAUREL. English (*Cerasus*). Growth shrub-like, with broad, dark green leaves. Height 12 feet. 2 feet apart for dense hedge. Shipping size 18-24 inches. Each 75c. Hedge plants, unballad. Height 8-15 inches. Each 15c. Portugal. Dark green, glossy leaves, small but very compact. Can be trimmed to globe or pyramid shapes. Maturity height 8 feet. Shipping size 12-15 inches. Each \$1.00.

APPLES

First Grade	Each
2 Year	\$0.60
1 Year, 4-5 feet.....	.50

Autumn and Winter Varieties

Delicious, Jonathan, Northern Spy, Wealthy, Winter Banana.

Summer Varieties

Gravenstein, Red Astrachan, Yellow Transparent.

Crabapple Varieties

Red Siberian, Transcendent.

APRICOTS

	Each
1 Year, 4 to 6 feet.....	\$0.60
1 Year, 3 to 4 feet.....	.50

Moorpark, Large, Yellowish, Green, The Lewis.

CHERRIES

	Each
2 Year, 4 to 6 feet.....	\$0.75
1 Year, 4 to 6 feet.....	.60
1 Year, 3 to 4 feet.....	.50

Bing, Large Black. Very fine. Late. Good shipping. Black Republican, large, black, sweet, purplish flesh. Large Montmorency, red, adapted for canning. Kentish, Dark red, juicy, sour. For cooking. Lambert, Largest deep red. Flesh firm, fine flavor. Late Duke, Large light red. Excellent, sub-acid. May Duke, Large, rich, dark red, sub-acid, early. Royal Ann, Large pale yellow, red cheek.

PEACHES

	Each
4 to 6 feet	\$0.60

Early Crawford. Large, yellow, red cheek. Freestone. Elberta, Yellow with red cheek. Juicy, sweet. Hale's Early, J. H. Hale, Late Crawford, Large, yellow, dark red, juicy. Freestone. Mayflower, Red all over. Extremely early. Freestone. Muir, Large, pale yellow, firm and sweet. Best for drying. Tuscan Cling, Very large. Yellow, blushed red.

PRUNES

	Each
2 Year, 4-6 feet.....	\$0.60
1 Year, 6-8 feet.....	.60
1 Year, 4-6 feet.....	.60

Hungarian, very large. Italian, Best for drying. Pacific, Good canner. Early August. Petite (French) Medium, egg shaped. Violet purple, sweet.

QUINCE

	Each
2 Year	\$0.75

Pineapple. Making superior jelly. Can be eaten raw.

PEARS

2 Year, 4 to 6 feet.....	\$0.75
1 Year, 4 to 6 feet.....	.60
1 Year, 3 to 4 feet.....	.50

Autumn Varieties

Bartlett, Large, skin thin, clear, lemon-yellow. Beurre Bosc, Large russety. Highly flavored. Beurre D'Anjou, Large, fine flavor. Keeps till Christmas.

PLUMS

First Grade	Each
2 Year, 4 to 6 feet.....	\$0.60
1 Year, 6 to 8 feet.....	.65
1 Year, 4 to 6 feet.....	.60

Bradshaw, Reddish-purple. Adheres partially to stone. July, Damson, Damson Shropshire, Dark purple, very firm, flesh green. Green Gage, Freestone, mid-July. Maynard, Dull red, rich and sweet. Sturdy, quick growing. Peach, Very large. Skin brownish-red. Freestone. July. Prinlew Plum, Best large plum for market. Good shipper.



NUT TREES

ALMOND (Nut Bearing). Almonds can be grown successfully in many sections of Oregon and Washington. We can supply most of the leading varieties at price listed. Special prices on large orders. 3-5 feet. Nonpareil. Nut sweet, shell thin. Each 75c.

FILBERTS. Each 75c. Barcelona, large nut. First quality. Du Chilly, full fleshed and sweet.

GRAFTED WALNUTS—Franquettes (Soft shelled). 3-4 feet, each \$1.00; 4-5 feet, each \$1.50; 5-6 feet, each \$2.00; large tree 1 3/4-inch diameter, each \$2.50.

HICKORY (Shellbark). 3-4 feet. Each \$2.50. California Black. Nut medium, 4-6 feet, each \$1.00; 6-7 feet, each \$1.25; 7-8 feet, each \$1.50.

GRAPES

2 Year plants, each 20c; 10, \$1.75; 100, \$15.00

1 Year plants, each 15c; 10, \$1.25; 100, \$10.00

Campbell's Early, Nearly round, black. Concord, Large, black grape. Bunches compact. Delaware, bright red. Lucile, Niagara, large, roundish, uniform white. Worden, large, black. Improved Concord, late.

RASPBERRIES

BLACK CAPS. 2 Year, each 25c; 10, \$2.25; 1 Year, each 20c; 10, \$1.75.

RED CAPS. 1 Year, each 10c; 10, 75c; 100, \$3.00. Cuthbert, Marlboro. St. Regus Everbearing Red Caps. Each 20c; 10, \$1.75; 100, \$15.00.

BLACKBERRIES

1 Year, each, 15c; 10, \$1.25

Eldorado, sweet and rich. Himalaya Giant (Evergreen). Everbearing, coreless, sweet. Lawton, fruit large, very productive. Thornless Mammoth Blackberry (Cory). Tips, spring delivery only, each 20c; 100, \$10.00. 1 Year, transplanted, each 25c; 100, \$10.00.

LOGANBERRIES

2 Year plants, each 20c; 10, \$1.75; 100, \$15.00

1 Year plants, each 15c; 10, \$1.25; 100, \$10.00

CURRANTS

Oregon shipments only
Each 20c; 10, \$1.75

Perfection, largest, most prolific. Bright red, rich flavor, mild, sub-acid. Fays Prolific.

GOOSEBERRIES

Oregon Champion, large, green, sweet, fine. Each 20c; 10, \$1.75.

YOUNGBERRY

Said to be a cross between the Loganberry and Dewberry. Plant about 800 plants to acre. Price, each 20c; 10, \$1.75.

DIAMOND QUALITY GRASS SEEDS—Laboratory Tested

FOR PASTURES, LAWNS AND HAY

The choicest new crop seeds, recleaned and tested for purity and germination. Prices are postpaid to fourth zone only; beyond that, add additional postage.

BERMUDA GRASS (*Cynodon dactylon*). Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season. Sow 6 pounds per acre. Lb. 65c; 10 lbs. \$6.00 postpaid.

BLUE GRASS, CANADIAN (*Poa compressa*). Recommended in all pasture mixtures on dry soil. Thrives well on clay or hard trodden and poor soil. Sow 25 pounds per acre. Lb. 35c; 10 lbs. \$3.00 postpaid.

BLUE GRASS, KENTUCKY (*Poa Pratensis*). One of the best grasses for permanent pastures, furnishing a constant supply of feed during the greater part of the year. Lawns, 1 pound to 200 square feet. Pasture, 25 pounds per acre. Lb. 50c; 10 lbs. \$4.50 postpaid.

ASTORIANA CREEPING BENT GRASS. This is one of the most popular Bents, because it is a true type and not a mixture. It requires less moisture and does well on higher, drier ground and will stand severe cold winters much better than other Bents. It has a beautiful, pleasing green and a fine, velvety texture, forming a matted turf and one that will stand much hard wear. It forms a permanent lawn and improves with age. One pound to 300 square feet.

Lb. \$1.10; 10 lbs. \$10.50 postpaid.

PACIFIC CREEPING BENT GRASS. Grown on this coast, acclimated to this country and especially recommended for golf courses. It makes an exceptionally fine turf that smothers out weeds.

Lb. \$1.00; 10 lbs. \$9.50 postpaid.

DIAMOND FANCY LAWN GRASS MIXTURE. Prepared from the choicest recleaned grass seeds, carefully selected for their fineness, their deep-rooting, close growing habits and seasonable qualities, producing an ideal, dense, velvety turf of lasting quality that remains green throughout the year. Sow 1 pound to 200 square feet. Lb. 60c; 10 lbs. \$5.50 postpaid.

DIAMOND FANCY LAWN GRASS MIXTURE with CREEPING BENT. This mixture has sufficient Creeping Bent to eventually dominate the lawn and crowd out the weeds, at the same time giving a fine, velvety turf. Sow 1 pound to 100 square feet.

Lb. 70c; 10 lbs. \$6.50 postpaid.

DIAMOND SHADY LAWN MIXTURE. Especially selected for producing a fine, velvety lawn under firs and shade trees where most grasses do not thrive.

Lb. 70c; 10 lbs. \$6.50 postpaid.

BROMUS INERMIS (Awnless Brome Grass). The best grass we have for the semi-arid regions of the Northwest. Grows luxuriantly, is freely eaten dry or green by cattle. Sow 25 to 30 pounds per acre. Spring or fall. Lb. 45c; 10 lbs. \$4.00 postpaid.

CRESTED DOG'S TAIL (*Cynosurus cristatus*). A perennial grass with short, narrow leaves. Valuable for lawns or pastures on dry, light land. Makes excellent sheep pasturage. Use 20 pounds per acre if sown alone. Lawns, 1 pound to 100 square feet.

Lb. 60c; 10 lbs. \$5.50 postpaid.

FESCUE, CHEWING (*Festuca Duriuscula*). A low-growing grass, fine leaved, forms a close turf that prevents ingress of weeds. Permanent in all kinds of soils. Unexcelled for lawns and golf courses. Lawns, 1 pound to 200 square feet. Pasturage, 30 pounds per acre.

Lb. 55c; 10 lbs. \$5.00 postpaid.

FESCUE, MEADOW (*Festuca pratensis*). Perennial. Grows 3 to 4 feet high. Roots deep, thus resisting drouth. It succeeds on any ordinary soil. Yields a heavy crop of superior hay. One of the best grasses for pastures, being valuable to mix with other kinds. Pasture, 30 to 40 pounds per acre.

Lb. 35c; 10 lbs. \$3.00 postpaid.

MESQUITE (*Holcus lanatus*). Usually sown on virgin soil without cultivation, after ground is burned over. Pasture, 20 to 30 pounds per acre.

Fancy hulled seed, lb. 30c; 10 lbs. \$2.50 postpaid.

VIGORO, THE COMPLETE SCIENTIFIC PLANT FOOD FOR BEAUTIFUL LAWNS

OAT GRASS, TALL MEADOW. The earliest grass to start in the spring and the last to die in the fall. Withstands drouth, heat and cold much better than other grasses. A long-lived, deep-rooted perennial. Grows equally on bottom or upland. Pasture, 20 to 30 pounds per acre. Lb. 40c; 10 lbs. \$3.50 postpaid.

ORCHARD GRASS (*Dactylis Glomerata*). One of the most valuable of all the cultivated grasses. As a pasture grass it is more productive than any other, and does best under close feeding. Sow 28 pounds per acre. Lb. 35c; 10 lbs. \$3.00 postpaid.

RED TOP (*Agrostis Palustris*). A good perennial grass for permanent lawns and pastures. Does best on moist, marshy land, if not overflow land. Sow seed 14 pounds to the acre. Lawns, 1 pound to 200 square feet. Lb. 40c; 10 lbs. \$3.50 postpaid.

ROUGH STALK MEADOW GRASS. For shady lawns or wood pastures. An excellent grass. Sow 1 pound to 200 square feet for lawns. Lb. 60c; 10 lbs. \$5.50 postpaid.

RYE GRASS, ENGLISH (*Lolium perenne*). A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. Pasture, 30 pounds per acre.

Lb. 25c; 10 lbs. \$2.00 postpaid.

RYE GRASS (Pacey's Short Seeded English). Sown thickly, it makes a fine lawn very quickly. Used extensively for polo grounds on account of its tough, heavy sod. Sow 1 pound to 200 square feet for lawns.

Lb. 25c; 10 lbs. \$2.00 postpaid.

RYE GRASS, ITALIAN (*Lolium Italicum*). Very desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage. Pasture, 30 pounds per acre.

Lb. 20c; 10 lbs. \$1.50 postpaid.

RYE GRASS, OREGON. The finest rye grass grown, far superior to imported. Pasture, 30 pounds per acre.

Lb. 20c; 10 lbs. \$1.50 postpaid.

TIMOTHY (*Phleum pratense*). This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall. Pasture, 8 to 12 pounds per acre. Lb. 20c; 10 lbs. \$1.75 postpaid.

PASTURE MIXTURES OF GRASS

Write for prices on special pasture mixtures. Postpaid prices are to fourth zone only. Beyond that, include additional postage.

No. 16—LOWLAND PASTURE MIXTURE. This mixture is for continuous pasture on low, moist ground. 10 lbs. \$1.75 postpaid. Write for 100 lb. prices.

No. 17—UPLAND PASTURE MIXTURE. A mixture of grasses well known for their drouth resistance and deep rooting qualities. 10 lbs. \$1.75. Write for 100 lb. prices.

MIXTURE FOR BURNED-OVER LAND. A blend of grasses for sowing on burns and logged-off lands. Splendid value and very economical for such purposes. 10 lbs. \$1.50 postpaid. Write for 100 lb. prices.



CLIPPER GRAIN and SEED CLEANERS

Used by agricultural colleges and experimental stations of the United States Department of Agriculture.

No. 1-B. Capacity 20 bu. or 10 bu. seed per hour. Price \$50.00.

No. 2-B. Capacity 25 bu. or 15 bu. seed per hour. Price \$55.00.

We can also supply Clipper Power Cleaners of any capacity for cleaning all kinds of seed or grain. Write for prices.

CLOVERS

Postage prices are to fourth zone only. Add extra postage if beyond. Clover prices subject to market changes.

LADINO WHITE CLOVER. Is a very large form of clover, usually making a growth of 8 to 12 inches. A perennial. The stems lie flat on the ground and commonly root at the joints. Can be grown on rather shallow land where well supplied with humus and moisture. Makes especially vigorous growth on the lower, medium heavy types of soils in Western Oregon, under irrigation or natural moisture during growing season. Grown for hay, pasture and seed. Will carry twice as much stock per acre as blue grass. Sow 4 to 6 pounds per acre. Lb. \$1.00; 10 lbs. \$9.50 postpaid.

YELLOW SWEET CLOVER, BIENNIAL (*Melilotus Officinalis*). In great demand on account of its earliness, being about two weeks earlier than the white. Does not grow as tall as white, but makes just as good pasture. Produces high quality hay.

Lb. 25c; 10 lbs. \$2.00 postpaid. Write for quantity prices.

YELLOW SWEET CLOVER, ANNUAL (*Melilotus Indica*). Now recognized as the legume best adapted for green manuring in orchards because it may be planted later in the fall after all crops have been harvested, and will grow all winter with only the season's rainfall.

Lb. 25c; 10 lbs. \$2.00 postpaid. Write for quantity prices.

WHITE SWEET or BOKHARA CLOVER, BIENNIAL (*Melilotus Alba*). Excellent for pasture, hay and a soil improver. More drouth resistant than alfalfa and will generally produce a large crop of seed and hay the second year. Thrives best on alkali soil.

Lb. 25c; 10 lbs. \$2.00 postpaid. Write for quantity prices.

HUBAM SWEET CLOVER, ANNUAL. An annual white blossom sweet clover, very similar to *Melilotus Alba*. Rapid growing. Makes an ideal crop for turning under or soiling in orchards. Good stock pasture. Seed 20 pounds per acre.

Lb. 50c; 10 lbs. \$4.50 postpaid. Write for quantity prices.

CRIMSON or SCARLET CLOVER (*Trifolium Incarnatum*). Highly recommended for pasture and fertilizing purposes. A thrifty annual. Germinates quickly, grows rapidly, stools abundantly.

Lb. 30c; 10 lbs. \$2.50 postpaid. Write for quantity prices.

MAMMOTH RED CLOVER. Grows very large and is used almost exclusively for plowing under for manure.

Lb. 40c; 10 lbs. \$3.50 postpaid. Write for quantity prices.

RED CLOVER (*Trifolium Pratense*). The standard clover for all purposes. Hardy. Succeeds well on any good soil. Makes superior hay.

Lb. 35c; 10 lbs. \$3.00 postpaid. Write for quantity prices.

ALSIKE or SWEDISH CLOVER (*Trifolium Hybridum*). A perfectly hardy perennial. Excellent for hay and pasture. Resists both drouth and excessive moisture.

Lb. 35c; 10 lbs. \$3.00 postpaid. Write for quantity prices.

WHITE DUTCH CLOVER (*Trifolium Repens*). Superior for pasture. Makes a beautiful lawn when mixed with blue grass.

Diamond Fancy, lb. 65c; 10 lbs. \$6.00 postpaid.

ALFALFA SEED

DRY LAND ALFALFA. Recommended for the high, dry lands.

10 lbs. \$3.00 postpaid. Write for quantity prices.

ALFALFA, DIAMOND FANCY. Does exceptionally well where growing conditions are normal, including irrigated lands.

10 lbs. \$3.00 postpaid. Write for quantity prices.

GRIMM ALFALFA (Certified). The hardiest alfalfa known. Its value has been demonstrated beyond question.

10 lbs. \$4.00 postpaid. Write for quantity prices.

SEED FLAX

10 lbs. \$1.50 postpaid. Write for quantity prices.

BARLEY

SUCCESS BEARDLESS BARLEY. Straw about height of common barley. Stands up better than other varieties. Contains no beard. Write for prices.

TREBI BARLEY. A blue, six-row barley, suited to short growing season. Write for prices.

O. A. C. No. 7 BARLEY. A white, six-row winter barley. Write for prices.

WHITE HULLESS or BALD BARLEY (Beardless). An early spring variety. When threshed is hulless like wheat. Write for prices.

COMMON BARLEY. A white, six-row, bearded variety. Write for prices.

HANNCHEN BARLEY. Heavy yielding, medium early, white, two-row, bearded type. Write for prices.

BUCKWHEAT

10 lbs. \$1.50 postpaid. Write for quantity prices.

SILVER HULL. Light gray color, thin husk, matures early. Heavy yielder.

JAPANESE. Grains large, dark brown, very thin hull. Matures early. Yields heavy.

MILLETS

10 lbs. \$1.50 postpaid. Write for quantity prices.

JAPANESE BARNYARD MILLET. This millet is exceedingly palatable and is the best of summer green feeds for the cool coast sections.

Other varieties of Millets we can supply:

GERMAN or GOLDEN. BROOM CORN. EARLY FORTUNE. NEW SIBERIAN. WHITE WONDER.

SEED OATS

ECLIPSE SIDE OATS. Medium late. Heads large, well filled, kernels plump and heavy. Write for prices.

CLIMAX TREE OATS. Medium early, producing large, white kernels, rather thin hulls. Write for prices.

WHITE SEED OATS. Selected, recleaned stock. Write for prices.

WHITE SIDE OATS. Selected, recleaned stock. Write for prices.

SWEDISH RED OATS. Tree oat. Soft hull. Fine strain. Ideal for hay. Write for prices.

GRAY WINTER OATS. Used as fall or winter. May be sown in the spring for hay in coast sections. Write for prices.

SORGHUMS

10 lbs. \$1.35 postpaid. Write for quantity prices.

SUDAN GRASS. An excellent drouth resisting forage plant. All stock relish it.

Other non-saccharine varieties of Sorghums we can supply:

BROOM CORN. MILO MAIZE. FETERITA. KAFFIR CORN.

SEED RYE

SPRING RYE (Bearded). Choice, recleaned seed. Write for prices.

ROSEN RYE. A fall or winter rye. Each head has 4 rows of grain. Grains are larger than common rye. Write for prices.

COMMON WINTER RYE. Choice, recleaned seed. Write for prices.

RAPE

DWARF ESSEX RAPE. One of the best forage plants, producing immense quantities of green feed when grass and other crops are dried up. Excellent pasture for all stock.

10 lbs. \$1.40 postpaid. Write for quantity prices.

VETCH

HUNGARIAN. Finer stemmed and leafier than most forage vetches. Suitable to various types of soils. Very resistant to aphid attacks. Write for prices.

PURPLE (Vicia Atropurga). Used as cover crop in orchards. Can also be used as a hay or silage crop. Write for prices.

AUSTRIAN WINTER FIELD PEAS. A popular variety for forage, either hay or silage. Excellent cover crop. Write for prices.

FIELD PEAS. We can supply the Canadian or the Blue Bell varieties. Write for prices.

COMMON VETCH. An excellent hay, green feed, pasture or silage vetch. Write for prices.

HAIRY VETCH (Vicia Villosa). Thrives on poor, arid, sandy soils. Write for prices.

TANGIER PEAS. Used for silage and soilage purposes. Write for prices.

SEED WHEAT

SEED WHEAT. We have the following varieties of selected, re-cleaned seed: Jenkins Club, White Winter, White Holland, Blue Stem, Red Russian. Write for prices.

EVERGREEN CHEAT (Bromus Secalinus). Does well on low or moist soil. Will stand considerable overflow. Cut for hay before it gets too ripe. Write for prices.

SUNFLOWER

MAMMOTH RUSSIAN. The largest and most productive variety.

Lb. 25c; 10 lbs. \$1.65 postpaid. Write for quantity prices.

SPELT or EMMER

EMMER. Thrives well on poor soil. Produces heavy yields of grain and hay. Sow in spring. Write for prices.



Dated fresh each year. The original soil inoculator.

BENEFITS OF INOCULATION. All legumes form a partnership at the roots with certain kinds of helpful bacteria called Legume Germs that are able to pump or draw nitrogen from the air and give it to the plant. They form on the roots in colonies looking like lumps, called nodules, which are really nitrogen storehouses. Without these germs, legumes would rob the soil for nourishment and have a sickly growth, for few soils contain a natural supply. It is therefore necessary to "inoculate", apply these nitrogen-gathering germs directly to the seed. All agricultural authorities advise this.

You cannot afford NOT to inoculate.

Garden Size—For Peas, Sweet Peas and Beans (3 in 1) 25c, postage extra.

Prices—Peas, Vetch, Beans, Austrian Winter Peas: 1/2 bu. 40c; 1 bu. 60c; *1 1/2 bu. 90c; 3 1/2 bu. \$1.80; 5 bu. \$2.50.

*Also called "100 lb. size."



ALFALFA, All Clover

Important. Be sure to state variety of seed for which you want Nitragin.

1/2 bu. size, inoculates 30 lbs. seed, 50c; 1 bu. size, inoculates 60 lbs. seed, 90c; 5 bu. size, inoculates 300 lbs. seed, \$4.00 f. o. b. Portland; postage extra.

VIGORO

The Balanced Plant Food for Your Garden's Success. Use Diamond Quality seeds, bulbs and plants and feed them regularly with **VIGORO**, the complete balanced plant food. It is the "Square Meal" for all growing plants. Clean, odorless, economical.

VIGORO PRICES

100-lb. bag	\$5.00	10-lb. pkg.	\$0.85
50-lb. bag	3.00	5-lb. pkg.50
25-lb. bag	1.75	12-oz. pkg.10

RED STEER FERTILIZER

	100 lbs.	Ton
4/7/6—Celery, potatoes	\$2.00	\$37.00
5/7/8—Berries	2.25	41.00
3/10/10—Gardens, fruits	2.50	46.00
Blood Meal, 13/0/0	2.50	46.00
Raw Bone Meal, 2/14/0	2.25	41.00
Steam Bone Meal		
Tankage 4/8/0	1.85	35.00
Superphosphate 0/18/0	1.30	24.00
Nitrate of Soda 15/0/0	2.75	51.00
Sulphate of Ammonia 20/0/0	2.00	37.00
Muriate of Potash 0/0/50	2.75	51.00
Sheep Guano	1.00	18.00
Fish Meal 7/9/0	2.50	46.00
Land Plaster Fertilizer—write for prices.		
Sulphur	3.00	
H. O. Lime—sour soils—write for prices.		
Peat Moss Mulch, bale	2.50	

SEMESAN

Modern seed disinfectant. One ounce treats 15 pounds. 2 oz. 50c; 1 lb. \$2.75; 5 lbs. \$13.00.

NEW IMPROVED SEMESAN BEL

Controls potato scab, rhizoctonia, black leg. 1 lb. treats 80 bushels. 4 oz. 50c; 1 lb. \$1.75; 5 lbs. \$8.00.

CERESAN

Controls smut on grain. Bulb disinfectant. One pound treats 8 bushels. 8 oz. 50c; 1 lb. 75c; 5 lbs. \$3.00; 25 lbs. \$12.50.

SEMESAN, Jr.

Controls Diplodia, Biggerella and Basesporium on field and sweet corn. 4 oz. 50c; 1 lb. \$1.75; 5 lbs. \$8.00.

Germāco

Hotkaps

Individual Hothouses for Every Plant



"Hotkaps" furnish each young plant with complete protection from wind, rain, frost and insects. They afford the best crop insurance and bring you more profit.

1M \$9.75; 5M \$9.60 per M; 10M \$9.50 per M; 25M \$9.25 per M.

Steel "Hotkap" Setters.

Each \$2.25. All prices f. o. b. Portland.

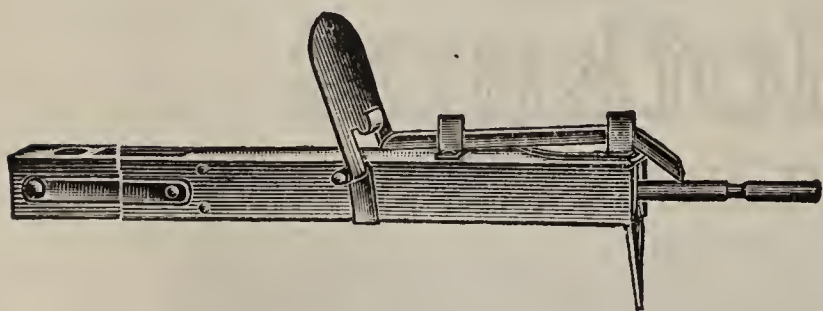
Pressboard "Hotkap" Setters. Each 50c f. o. b. Portland.

250 Home Package, including setter \$3.50; 100 Home Package, including setter, \$2.25 f. o. b. Portland.



MASTER'S PLANT SETTER. With a "Master's" you can set, water and fertilize 10,000 plants a day and do better work than if set by hand. Works as fast as you walk. Sets cabbage, kale, celery, tomatoes and vegetable plants of all kinds. Shipping weight 5 lbs. Price \$6.25 postpaid.

NEW BASTION TREE PRUNER. The powerful lever enables you to do the same work in half the time that would be required with old style pruners. Damascus steel blades, very strong, hold their cutting edge. Light, strong and durable. 6 ft. \$2.00; 8 ft. \$2.25; 10 ft. \$2.50; 12 ft. \$2.85; f. o. b. Portland.



THE NEVER-FAIL GOPHER GUN. Positive destruction of gophers, moles, squirrels, rats and other burrowing pests. Use .38 blank cartridges. Each \$1.85 postpaid.

OFFICIAL RAT TRAP. Spring releases with either upward or downward pressure.



Official Rat Trap, weight 1 lb., each 15c.

OUT O' SIGHT MOLE TRAP. Sure to "get them." Postpaid, \$1.40.



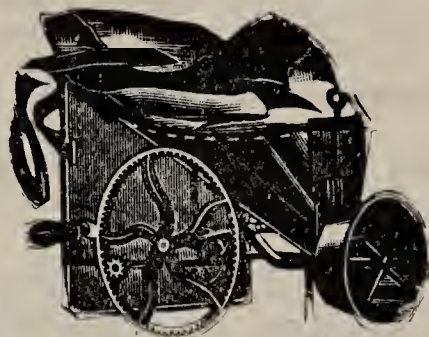
No. 301 No. 302 No. 306

No. 301 POTATO PLANTER. Price \$1.25.

No. 302 TUBULAR POTATO PLANTER. Opens automatically by forward movement. Price \$1.75 postpaid.

No. 306 CORN PLANTER. Adjustable from popcorn to large kidney beans. Price \$1.25 postpaid.

No. 309 AUTOMATIC CORN PLANTER. Price \$2.50 postpaid.



CAHOON SEEDER

CAHOON SEEDER. Made of steel, iron and brass. The most popular and best. Force feed. Does excellent work. Sows all grains and grass seeds. Weight 9 lbs. Instructions included. Price \$5.00 postpaid.



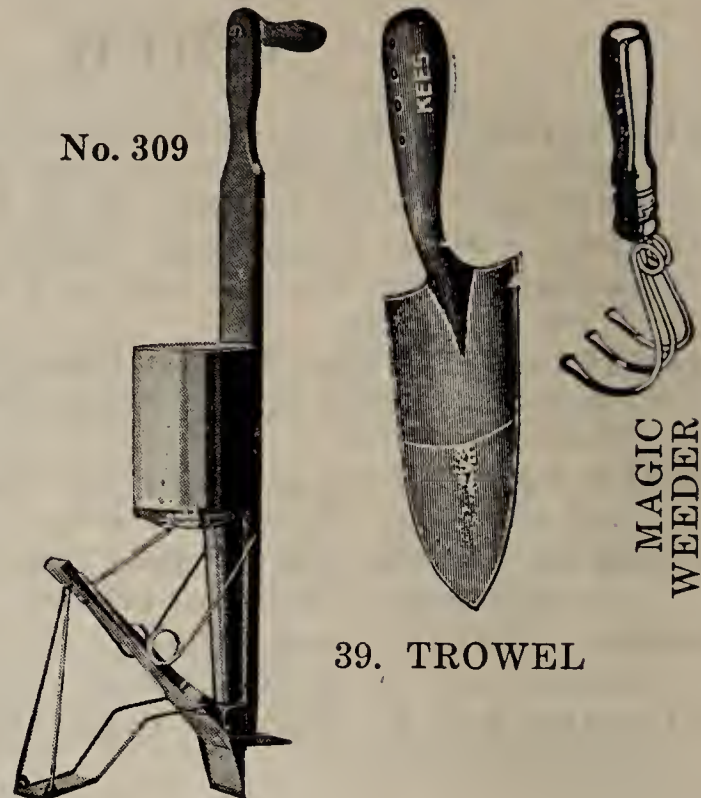
CYCLONE SEEDER. Sows any kind of seed perfectly, any amount desired per acre. Price \$2.50 postpaid.



HORN SEED SOWER. Nozzle is adjustable. Heavy tin. Price \$1.00 postpaid.

GRAFTING WAX— $\frac{1}{4}$ lb. 20c; $\frac{1}{2}$ lb. 35c; 1 lb. 60c.

No. 309

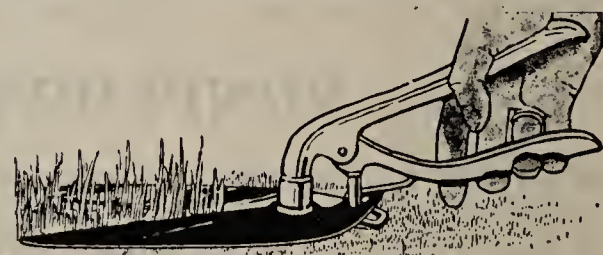


39. TROWEL

MAGIC WEEDER. Spring steel, 3 tines. Price 20c postpaid.

No. 39 ALL STEEL TROWEL. One-piece, unbreakable. Blue lacquered, sharpened. Price 25c postpaid.

No. 38 GALVANIZED STEEL TROWEL. One-piece blade and handle. Price 10c.



GOODWIN GRASS SHEARS. Made to cut fast and clip close without barking knuckles or making blisters. Easy to get into corners, or cut edges at walks, around shrubs and flowers, etc. Every inch of blade lies flat on ground. Will cut the toughest grass from tip to hilt. Hand is in comfortable position. Shipping weight 1 lb.

Ball Bearing Model \$1.75, Bronze Bearing Model \$1.25 postpaid.

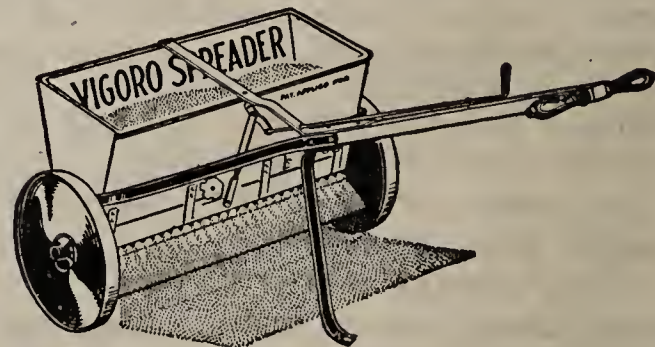
VILLAGE BLACKSMITH BRAND GRASS SHEARS. Full polished, 6-inch, hollow ground, tempered steel blades. Clean cutting.

No. V51. With trowel shank.

Special price \$1.00.

No. V1. Without trowel shank.

Price 75c.

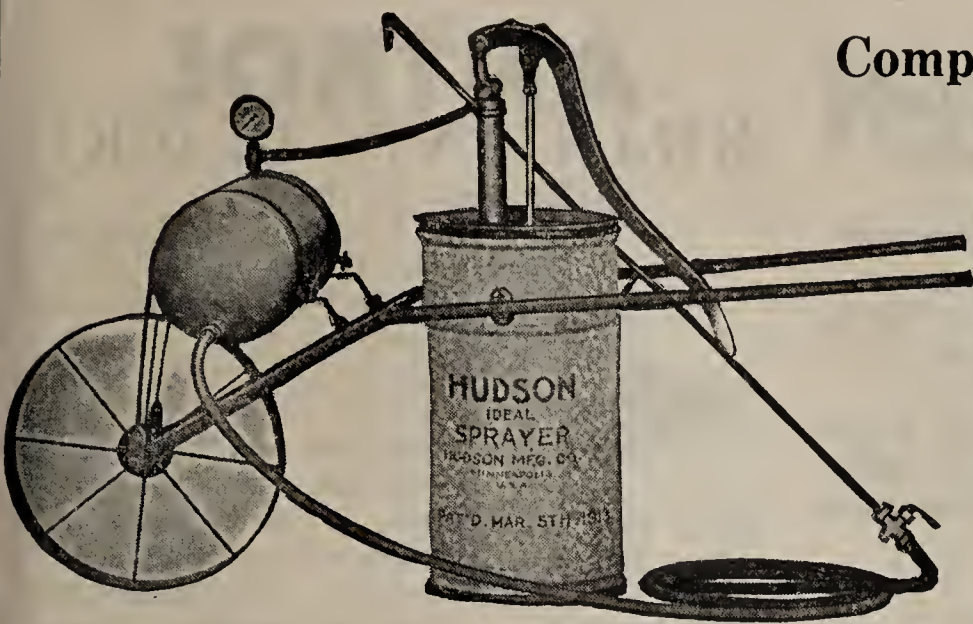


Vigoro Spreaders

Vigoro Spreaders are mighty handy garden implements. They apply Vigoro and grass seed evenly and quickly assuring a velvety green lawn.

Made in four sizes—

	Prices
Little Spreader	\$ 2.35
Junior Spreader	7.00
Standard Spreader	12.85
Special Spreader	20.50



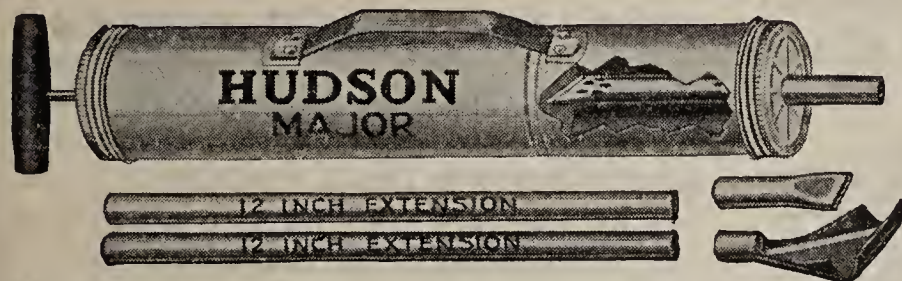
IDEAL SPRAYING OUTFIT

Heavy galvanized tank holds 15 gallons. Pump has large air chamber, bronze ball valves and is easily removable. Tested to a pressure of 275 lbs. Mechanical agitator and strainer. Complete with 6 feet of $\frac{3}{8}$ -inch hose, 4-foot jointed extension. T-handle shut-off, "Ideal" non-corroding nozzle; 18-inch wheel, $2\frac{1}{2}$ -inch tire. Heavy steel tubing frame. Easy to wheel about.

No. 33. Complete with reserve air pressure tank. Price \$37.50.

No. 32. Without air tank. Price \$25.00.

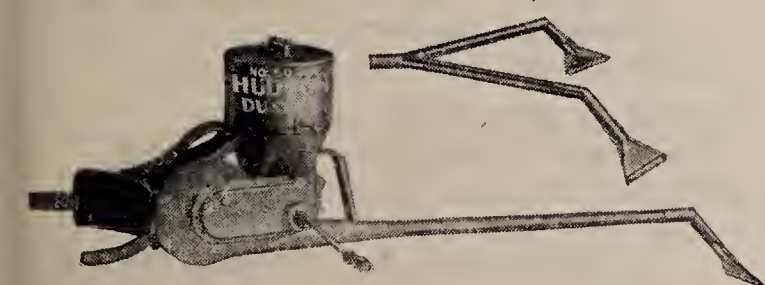
Dusters



MAJOR DUSTER. Large, powerful dust sprayer with extension nozzle. $2\frac{3}{4}$ x9-inch pump. Price \$1.10 postpaid.



CADET DUSTER. Covers every surface with a cloud of dust. Price 60c postpaid.



No. 604

No. 604 DUSTER—Develops an unusually powerful air blast. It delivers more than enough air at the nozzles to prevent clogging, and to break the powder into a fine, floating dust. It has two agitators, one oscillating, one rotary. Indicator has a very wide range of adjustment. It can be set to feed exactly the amount of powder required. Will handle any powder, whether light or heavy. Capacity 5 to 10 pounds depending on the powder use. \$15.00 f. o. b. Portland.

Compressed Air Sprayers



120-G

120-G, 2-Gal.—HUDSON THRIFTY SPRAYER. An inexpensive spray pump suitable for all work around home and garden. Made of first quality copper bearing galvanized sheet. \$4.00 postpaid.

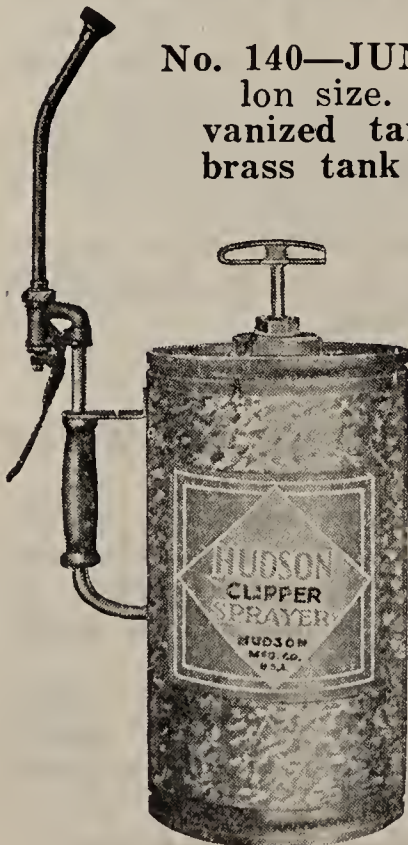


No. 130-140

No. 130 — FAVORITE. Four-gallon size. Tank $21 \times 7\frac{1}{2}$ in. Shipping weight 11 lbs.

Price with galvanized tank \$6.00; with brass tank \$8.75 postpaid.

No. 140—JUNIOR. $2\frac{1}{2}$ gallon size. Price with galvanized tank \$5.00; with brass tank \$7.50 postpaid.



No. 138G—CLIPPER.

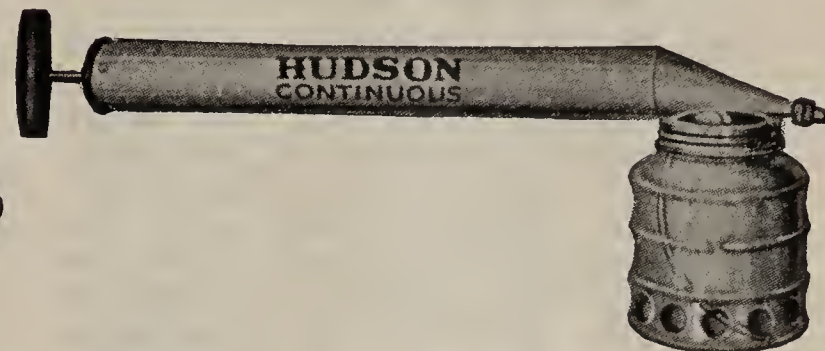
$1\frac{1}{2}$ gallon size. Automatic shut-off valve of brass. Pump is brass, tank galvanized. Will handle any solution. Shipping weight 5 lbs.

Price \$4.25 postpaid.



No. 303—FOG SPRAYER. For vaporizing fly oils and insecticides so fine as to remain suspended in air.

Tin, 1 qt. 45c postpaid.



No. 427G—HUDSON CRITIC. Detachable container. Brass cone tip and jar top prevents corrosion. Wide mouth makes filling or cleaning easy.

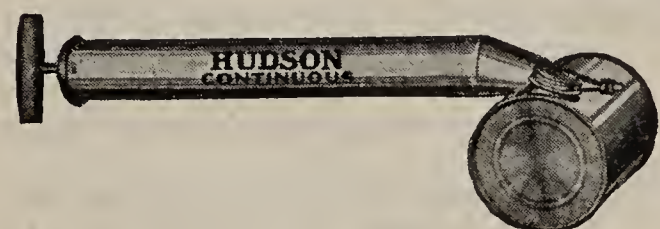
Glass, 1 qt. \$1.25 postpaid.



No. 452—MISTY SPRAYER. Extra sturdy in construction, point of pump passing through tank, with spray and siphon tubes in perfect alignment. Has drip cup to absorb seepage. Length 21 inches. Heavy tin tank, 1 full quart capacity. Price 50c postpaid.



No. 202—MIDGET SPRAYER. Small size, especially for home use. Extra sturdy. 10 inches long; tin tank $\frac{3}{4}$ pint capacity. Price 35c postpaid.



No. 432

No. 432—HUDSON CONTINUOUS SPRAYER is an exceptionally sturdy outfit. Pump passes directly through the top of the tank and is securely soldered, preventing any possibility of parts getting out of alignment. Handles all solutions which are sediment free, such as disinfectants, deodorants, insecticides, etc. Produces a finely divided, continuous spray. 75c postpaid.

No. 426 — COMET CONTINUOUS SPRAYER. Variable nozzle, any spray from fog to solid stream; instantly adjusted; all working parts brass, valve easily accessible. Handles all types of oil and water sprays. One quart size. Heavy tin tank 75c; brass tank \$1.25; postage 10c extra.

INSECTICIDES and FUNGICIDES

TWO-WAY SPRAY. A balanced insecticide and fungicide containing 14 per cent arsenate of lead and 83 per cent Bordeaux Mixture. Two results with one application. Use wet or dry.

½ lb. carton 25c; 1 lb. carton 45c; 4 lb. bag \$1.25 postpaid.

ALL-ROUND SPRAY. All-Round Spray contains the three leading remedies used by all large growers: Arsenate of lead, nicotine sulphate and Bordeaux Mixture. Perfect protection for the small user is assured by complete directions in form of spraying guide attached to every package.

½ lb. carton 40c; 1 lb. carton 85c.

GARDEN GUARD. A garden insecticide and fungicide for use as a dust. For use on cabbage, cauliflower, tomato plants, melon vines, currants and gooseberries and other vegetables, flowers and shrubs of many kinds.

1 lb. sifter carton 25c; 5 lb. bag 90c.

BAIT-M. For use against snails, cutworms, sow bugs, grasshoppers and many other insects which migrate along the ground.

1 lb. 30c; 3 lbs. 60c; 15 lbs. \$2.75.

ARSENATE OF LEAD. The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and tobacco. Can be used as dust or liquid.

½ lb. carton 20c; 1 lb. carton 30c; 4 lb. bag \$1.00.

BORDEAUX MIXTURE. Prevents blight, rot, mildew, scab, anthracnose and certain other fungous diseases.

1 lb. carton 35c; 4 lb. bag 90c; 8 lb. bag \$1.30; 100 lb. drum \$15.

PARIS GREEN. For use on potatoes, cotton, tobacco; also to mix with arsenate of lead for fruit tree spraying where quick results are necessary.

¼ lb. carton 20c; 1 lb. carton 50c; 5 lb. carton \$2.25; 14 lb. kit \$6.25; 100 lb. keg \$38.00.

DRY LIME SULFUR. A standard 33 degree Baume lime and sulphur converted into a dry powder. For use on dormant spraying against scale, peach blight, leaf curl and twist borer. Summer spraying against scab, soot, blotch, red spider and mite.

1 lb. 35c; 5 lbs. \$1.50; 10 lbs. \$2.60; 25 lbs. \$3.75; 50 lbs. \$7.00; 100 lbs. \$12.50; 200 lbs. \$22.00.

LIME-SULPHUR SOLUTION. Always uniform and of the highest efficiency. Tests 30 Baume scale. Ready to mix just as you get it. Add 11 gallons of water with each gallon of Lime and Sulphur Solution.

1 qt. 30c; 1 gal. 75c; 5 gals. \$2.40; 10 gal. cases \$4.50; 50 gal. bbls. \$11.00 f. o. b. Portland.



Sure death to plant insects. Harmless to man, birds and animals. It is not a poison.

1 oz. bottle 35c; 6 oz. bottle \$1.00; 16 oz. bottle \$2.00; 32 oz. bottle \$3.50; 1 gal. bottle \$11.50 not postpaid.



Disinfectant, deodorant, antiseptic, not a poison. Colorless, leaves no stain on floors or walls. Destroys foul odors, leaves no odor of itself.

4 ozs. 30c; 10 ozs. 50c; 32 ozs. 90c; 1 gal. \$2.00; 5 gals. \$8.50 f. o. b. Portland.

B-K POWDER

(Contains 3½% Available Chlorine)

For general disinfecting and deodorizing in dairies, schools and institutions.

1 9½-ounce bottle will make 1 gallon of 3½% sodium hypochlorite solution, 75c.

1 1¾-pound bottle will make 3 gallons of 3½% sodium hypochlorite solution, \$1.25.

SNAROL



Rid your garden of Cutworms, Snails, Slugs, Earwigs and Grasshoppers with Snarol. Snarol is a ready prepared meal, easy and inexpensive to use and does the work quickly and surely.

Packed in convenient 1½ and 4 lb. cartons and in 15 and 50 lb. bags.

1½ lb. carton 35c; 4 lb. carton 75c; 15 lb. bags \$2.50; 50 lb. bags \$7.00 f. o. b. Portland.

ANTROL Ant Powder



This new improved powder kills ants, roaches, silverfish and other pests quicker by actual test. Packed in handy shaker, twist-top can.

Recommended for quick temporary relief in apartments, camps, summer homes, etc.

Price—2-oz. can 15c

ANTROL KILLS ANTS QUICK!

Kills Ants in the Nest



You need no longer be bothered by continual or periodic invasions of ants. Antrol is the simplest, most effective method of permanently controlling ants ever developed. It kills ants in the nest—destroying the queen and the entire colony—the only possible way to gain any lasting freedom from these pests.

Antrol Sets 75c; syrup, 4 oz. bottle 25c; pint bottles 65c; quarts \$1.00 f. o. b. Portland.



BLACK LEAF "40". Destroys aphids, thrips, leafhoppers on all tree, bush and vine fruits, vegetables, field crops, flowers.

1 oz. 6 gal. spray, 35c; 5 ozs. 30 gal. spray, \$1.00; 1 lb. 80 to 240 gals. spray \$2.10; 2 lbs. 160 to 500 gals. spray, \$3.10; 5 lbs. 400 to 1250 gals. spray \$5.85; 10 lbs., 800 to 2500 gals. spray \$10.15 f. o. b. Portland.

GOLD LEAF TOBACCO POWDER.

2 lb. pkg., each 35c; 10 lb. pkg. each \$1.00; 100 lbs. \$7.50 f. o. b. Portland.

BLUE STONE (Blue Vitriol).

1 lb. 10c; 100 lbs. market price, f. o. b. Portland; not mailable.

TREE TANGLEFOOT. For caterpillars, moths and worms. Protects against all climbing insects. 1 lb. makes a band 9 feet long.

1 lb. 60c; 5 lbs. \$2.50; 10 lbs. \$4.75; 25 lbs. \$10.50 f. o. b. Portland.

CORONA COPPERCARB. For the control of smut on wheat. Copper dust gives successful results in the control of smut, but does not in the slightest degree hurt germination. Use 2 to 4 ounces per bushel of seed.

5 lbs. \$1.25.

FORMALDEHYDE. In glass.

Pt. 50c; qt. 80c f. o. b. Portland.

In tins. (It costs less in tins).

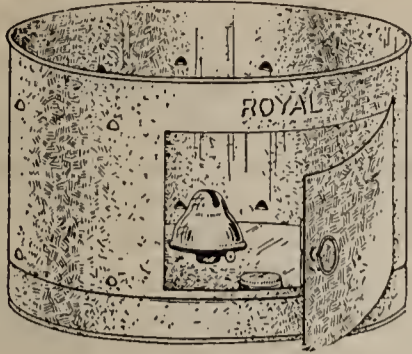
No. 2½ cans (28 f. ozs. or ⅔ qt. U. S. Std.), 60c; No. 10 can (112 fl. ozs. or ⅔ gal. U. S. Std.), \$1.75; case of 6 No. 10 cans \$10.00 f. o. b. Portland.

NAPHTHALENE. For treating soil for insect pests. Used by truck gardeners, bulb growers and for field crops to drive away grubs, wire worms, slugs, centipedes, aphids, etc.

1 lb. can 25c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. \$2.25; 50 lbs. \$4.00; 100 lbs. \$7.50 f. o. b. Portland.

WHALE OIL SOAP. For aphids, plant lice, etc.

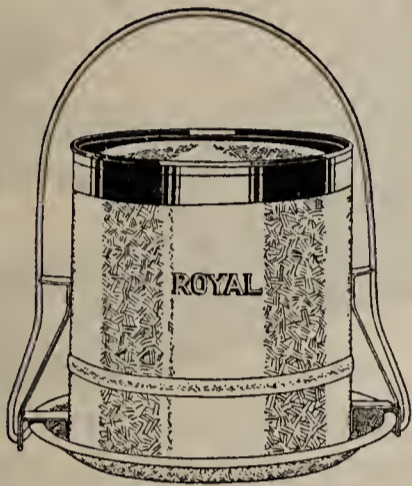
Per bar 15c f. o. b. Portland.



ROYAL FOUNTAIN HEATER. Burns for a number of days with one filling of oil. Can be used with all Fountains up to 8-gallon size.

No. 211—11 in. diam, weight 8 lbs.; each \$1.75.

No. 214—14 in. diam., weight 11 lbs.; each \$2.00.



ROYAL 6-QUART GALVANIZED FOUNTAIN. Extra heavy 20-gauge, one-piece pan. Turns upside down to fill. Pan is held in place by spring tension furnished by bail and forced in place.

No. 32—Weight 4 lbs. Each \$1.00.

MOE'S SWING TOP CHICK FEEDERS. Made of heavy galvanized steel throughout and the tilting top has three adjustments making it suitable for both baby chicks and growing fowl, as the top can be raised as the chicks grow in size and need more head room. Height of pan 2 1/4 in., total height 5 1/2 in., width of tilting top 2 in. Made in two lengths.

No.	Length	Each
463	—3 feet	\$0.75
464	—4 feet	1.00

CHICK HOPPERS. Hinge top, adjustable sides, all turned edges on feeding holes.

No. 63—36 in. long, 54 holes, 18 qt. capacity, weight 9 lbs. Each \$1.50.

JAR FOUNTAINS.

Made from extra heavy galvanized iron.

Without Jar.
Each 10c.



STAR FOUNT AND FEEDER. One piece of metal. Holds a Mason quart jar.

Without jar, each 10c; doz. \$1.10.

ROYAL CHARCOAL TIN LARGE BUTTERMILK FOUNTAINS.

These fountains are made from 135-lb. charcoal tin and have two large openings, one on each side, with a piece of spring steel attached to two pieces of metal in the inside, in order to keep the milk from running out when the fountain is being filled. Easily cleaned and filled. Two sizes.

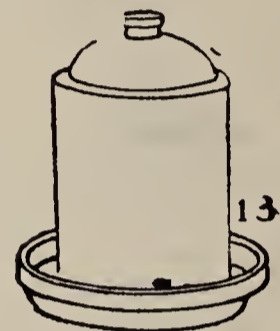
No. 301—1 gal., weight 3 lbs. Each \$1.35.

No. 303—3 gal., weight 6 lbs. Each \$2.25.

TOP-FILL FOUNTAINS. Made from heavy galvanized iron. Permits the fowls to drink all around fountains. Appearance similar to No. 301.

No. 203—3 gal., weight 6 lbs. Each \$1.75.

No. 205—5 gal., weight 12 lbs. Each \$2.25.



SANITARY STONE FOUNTAIN.

Strong, well finished, made in two pieces. They keep the water cool.

1/2 gal. 65c; 1 gal. 75c; 2 gal. \$1.25 f. o. b. Portland.

RABBIT DISHES. Earthenware, incurved edges prevent rooting out the food. 6 in. 20c; 8 in. 25c each.

MOE'S GEM CHICK FOUNTAINS.

Made of galvanized steel, accurately stamped and formed. Easy to fill and clean. The fluted pan is extra heavy, and shaped to care for up to 18 chicks at a time without crowding or danger of getting the chicks wet. Diameter of pan, 10 in. In two sizes.

No.	Capacity	Each
158	—1 gallon	\$0.65
159	—2 gallons	.90

ROYAL BUTTERMILK FEEDERS.

No. 318—18 in. long, 26 holes, weight 1 lb. Each 30c.

No. 324—24 in. long, 34 holes, weight 2 lbs. Each 40c.



IMPROVED DOUBLE CHICK FEEDERS.

Made of best quality galvanized steel, accurately stamped with dies. All of the openings have smooth turned-over edges. No sharp or rough edges to injure the chicks. Sliding top. Easy to fill and clean.

No. 58. Length 12 in., 18 feeder holes. List price, 30c; net, dozen \$2.40.

No. 59. Length 18 in., 26 feeder holes. List price, 40c; net, dozen \$3.20.

No. 60. Length 24 in., 36 feeder holes. List price, 50c; net dozen, \$4.00.

No. 76. Length 36 in., 52 feeder holes. List price, 70c; net, dozen \$5.60.

GRIT AND SHELL BOXES. Are made of heavy galvanized iron in three sizes. The No. 45 for baby chicks has a square bottom; the other sizes have round bottoms.

No. 45—Two compartments; weight 1 lb. Each 45c.

No. 9—Three compartments; weight 2 1/2 lbs. Each 85c.

MOE'S DIXIE CHICK FEEDERS.

Made of best quality galvanized steel, accurately stamped with dies. The round troughs are easily filled and cleaned, and have a turned in flange to prevent waste of feed. Width of trough 3 in. Fitted with a heavy wire top guard to keep the chicks out of the feeder, and this guard is adjustable so it can be raised as the chicks grow.

No.	Length	Shipping Wt.	Each
460	18 in.	10 lbs.	\$0.25
462	30 in.	16 lbs.	.40

LARGE CAPACITY CHICK HOPPER.

Made from 26 gauge galvanized iron with hinge top. Can be used for chicks and grown birds as feed grates are hinged and can be raised.

No. 624—24 in. long, 34 holes, 17 qt. capacity, wt. 12 lbs. Each \$1.50.

No. 636—36 in. long, 54 holes, 26 qt. capacity, wt. 17 lbs. Each \$1.80.

No. 648—48 in. long, 72 holes, 35 qt. capacity, wt. 22 lbs. Each \$2.40.

LEG BANDS



SPIRAL COLORED LEG BANDS

SPIRAL COLORED LEG BANDS.

Made like a key ring; easy to put on; nothing to catch or tear off. All sizes. Ten colors—red, white, yellow, black, pink, green, brown, purple, light blue, dark blue.

Leghorn size, 100 for 55c; Barred Rock and Red, 100, 60c postpaid.

KWIK-ON LEG BAND. Easiest and quickest to put on your flocks. Once tried, always used. Safe. Color fast. Durable. Best by users' test.

No. 9, for Leghorn, 100 50c; No. 11, for large Rocks and Reds, 100 60c; No. 14, for turkeys, 100 85c postpaid.

ADJUSTABLE ALUMINUM LEG BANDS.

Made of sheet aluminum, with large raised numbers. Easy to read from a distance. Adjustable for any size fowl. Accurately made and quickly applied.

Quantity	Price
50 Bands	\$0.40
100 Bands	0.65
500 Bands	3.00
1000 Bands	5.50

Postpaid

WESTERN IMPROVED CAPONIZING SET.

No. 410. The Western Improved Caponizing Set, a practical and complete set of instruments for caponizing fowl. All finely finished and nickel plated. Packed complete with instructions for use. Shipping weight 8 oz. Price, per set \$2.95.



QUEEN COLONY BROODER STOVES

For hard or soft coal, briquets, coke or charcoal.

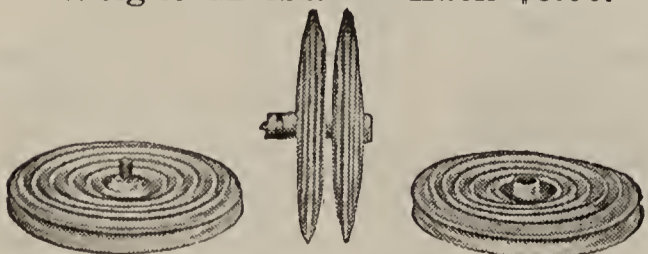
No.	11	22	33	44
Chick size	500	1000	1200	1600
Price f. o. b.				
Portland	\$17.50	\$22.00	\$27.00	\$34.00



PUTNAM BROODER HEATER. You can make your own brooder out of a box, for accommodating 25 to 60 chicks, by using this heater. Heater requires filling but once a week. Uses less than a gallon of oil a month. Perfect ventilation automatically. Heat radiates from above onto backs of chicks. Can be operated anywhere, in the house or out of doors. Directions for making brooder enclosed.

Price \$4.75 not postpaid.

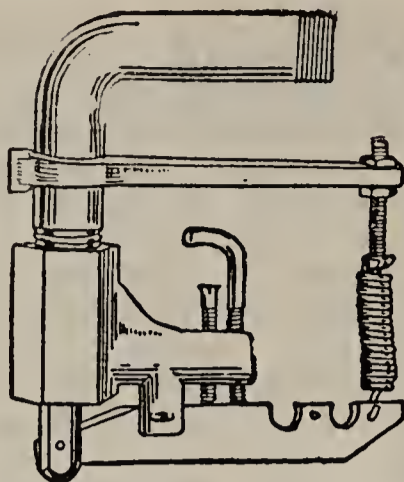
ROYAL ELECTRIC BROODERS—
No. H-51. 50 to 75 chick capacity. Trouble-proof, practical and inexpensive electric brooder, which uses a 50-watt heating unit and attaches to any socket. Canopy 24 in. in diameter; made from heavy galvanized steel and supported by strong steel legs. Complete with 10 feet of cord and screw plug. Weight 12 lbs. Each \$3.00.



DOUBLE UNIT WAFER THERMOSTATS FOR BROODERS. Made of special tempered brass, vacuum filled, sensitive, accurate durable. Begin to expand about 85° Fahr. Each 50c.

THERMOMETERS.

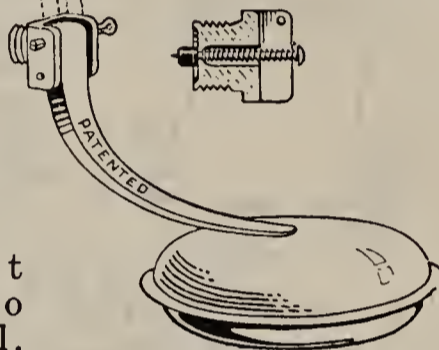
For Incubator, \$1.00.
For Brooder, 50c.



"GUARANTEED" AUTOMATIC WATER FOUNTAIN. Especially designed for poultry; can be attached to any water line, tank or barrel. Operates by gravity pressure of drinking pan. Each \$1.60, postpaid.

HAWES AUTOMATIC WATER VALVE

For watering poultry and small stock. Float turns up to clean bowl. Easy to install on water line or tank. Each \$1.10 postpaid.



For enclosures of all kinds, including poultry houses, hot beds, cold frames, screened porches, livestock sheds, etc. Brings in the ultra violet rays. Replace all the glass in your chicken houses, laying houses and scratch sheds with "Suntex" and egg production will increase.

Yard, 30 in. 28c; 36 in. 32c; 50-yard bolt, 30 in. \$12.75; 36 in. \$15.00.



PETTEY'S POULTRY PUNCH. Will not clog. Price 25c postpaid.

SCISSOR POULTRY PUNCH. Strong and durable. Cuts clean. Price 20c postpaid.



LIME NEST EGGS. Indestructible. Three for 20c; doz. 60c postpaid.

CHINA NEST EGGS. Best grade opal eggs. 3 for 15c; 12 for 50c postpaid.

PRUNING SAWS

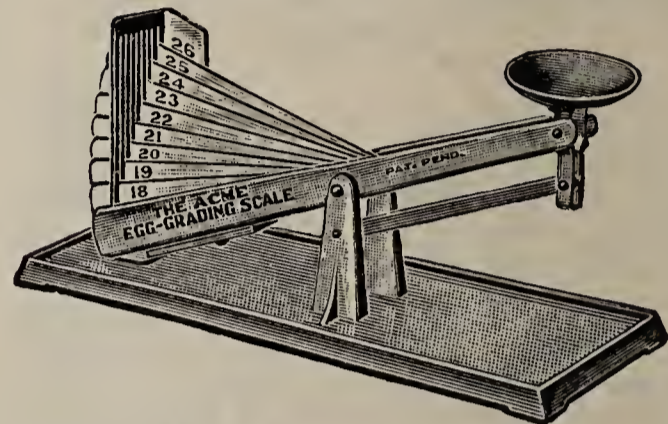
Close Out Special

Pruning Saws—No. 1 Regular Pruning Saw, best silver tool steel, regular tooth. 16 in. \$1.00. 18 in. \$1.25 postpaid.

No. 3 Duplex Pruning Saw, one side has Tuttle steel, the other side regular teeth. 18 in. \$1.25 postpaid.

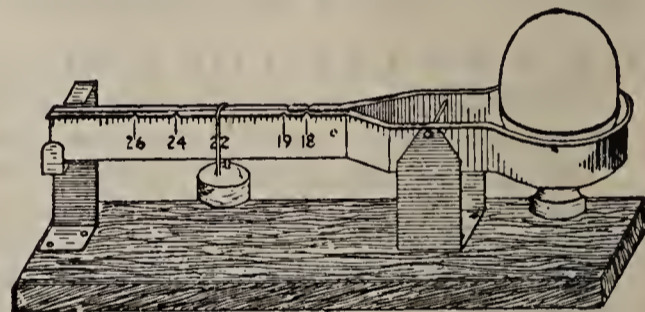
No. 13 California Pruning Saw, crescent shape, best silver steel, regular tooth. 14 in. \$1.25 postpaid.

EGG SCALES



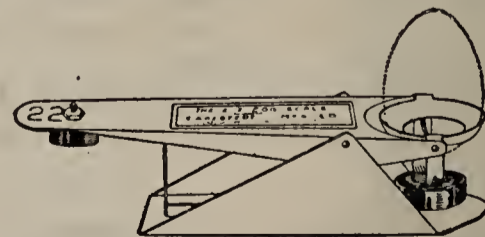
THE ACME EGG GRADING SCALE. Aluminum, rust-proof, indestructible. Will meet the requirements of any state bureau of weights and measures.

No. 2—Adapted to the Pacific Coast. Grades: 18 to 26 oz. Price \$2.85 postpaid.



CHAMPION EGG GRADING SCALE. Improved type; grades with eggs in any position. Meets all requirements, grading pewee, pullet and standard eggs. Solid brass; will not get out of order; no loose parts to get lost. Price \$1.75 postpaid.

GILT EDGE EGG SCALE. Simple in construction, easy to operate, graduating by the ounce per dozen. Price \$1.25 postpaid.



THE E-Z EGG SCALE. For quick and accurate grade. Made of brass and enameled steel. Simple and durable. No springs, no loose weights, no adjustments. Sizes 19, 21, 22, 23 and 24 oz. One scale used for each grade desired. Price, each 60c postpaid.

E-Z TURKEY EGG SCALE. Sizes 2½, 3, 3½ oz. Price, each \$1.00; postage 10c.

REMEDIES

For Poultry, Stock and Pets

POULTRY PRESCRIPTION 999.

Poultry Tonic and Worm Powder. A scientific compound which runs high in vitamins; also certain necessary minerals and several very expensive and well-known worm expellants, which are non-poisonous and harmless to fowls, but sure death to all forms of worms such as tapeworm, round worms and other forms of intestinal parasites.

4 oz. pkg. 75c; 12 oz. \$1.75; 1½ lb. \$3.00; 3 lb. \$5.50; 5 lb. \$7.50 f. o. b. Portland.

BRONKI-OL INHALANT. Poultrymen will find Bronki-ol Inhalant a splendid preparation as an aid to assist nature in treating chickens, turkeys, geese and pigeons affected with colds and many other forms of bronchial troubles. Rabbit breeders will find Bronki-ol Inhalant an aid in assisting nature to combat cold and snuffles in rabbits.

8 oz. bottle 50c; pint can 85c; quart \$1.45; ½ gallon \$2.25; gallon \$3.75 f. o. b. Portland.

CREXAFOWL POULTRY POWDER.

A splendid stimulating conditioner for moulting hens. Makes hens lay and pay.

1½ lb. 30c; 5 lb. 85c; 12 lb. \$1.80; 30 lb. galv. pail \$4.25; 100 lb. barrel \$12.00 f. o. b. Portland.

DISINFECTANT DIP (2 to 3 Co-efficient).

An efficient disinfectant, germicide, insecticide and antiseptic, recommended as a disinfectant for poultry houses, kennels, barns, pet stock quarters and for household uses. Can be diluted with water or oil.

8 oz. bottle 35c; pint bottle 45c; cans, quart 65c, half gallon \$1.00, gallon \$1.75 f. o. b. Portland.

STOCK TONIC. A general conditioner for livestock. An aid to digestion, invigorating, helping to secure more value from the food rations.

3½ lb. pkg. 65c; 10 lb. \$1.50; 30 lb. \$4.25 f. o. b. Portland.

PULVULES (Filled Capsules).

Nicotine and Lloyd's reagent. For the eradication of round worms in poultry. Also for eradication of worms in dogs, sheep and hogs. As suggested by the College of Agriculture of California. Dose: For chickens, one capsule to the bird; place well down its throat, moisten with water.

Per 100 75c; per 1000 \$5.00 f. o. b. Portland.

CREXAFOWL POULTRY TONIC.

Is a scientific mineral conditioner for both young and mature poultry. Makes hens lay and pay.

In bottles, 8 oz. 50c; 16 oz. 75c; qt. \$1.00; half gal. \$1.75; gallon \$3; 5 gal. \$12.50 f. o. b. Portland.

SODIUM FLUORIDE, PLAIN.

Recommended to be used as a lice powder or for dipping.

1 lb. can 45c; 5 lb. can \$1.75; f. o. b. Portland.

COMPOUND SODIUM FLUORIDE

LICE POWDER. Compound Sodium Fluoride Lice Powder is a very high-grade preparation made for dusting fowls.

15 oz. pkg. 30c; 2½ lb. 70c f. o. b. Portland.

RED MITE AND LICE KILLER.

To be used on the fowls or in the poultry houses to aid in killing lice and mites. Kills by contact.

Quart can 60c; half gal. 90c; gal. \$1.75 f. o. b. Portland.

TOE PICK.

For controlling and overcoming the vicious habit of toe, wing and vent picking of chicks. It is also soothing and healing.

7 oz. can 45c; 15 oz. can 80c f. o. b. Portland.

SHEEP DIP (2 to 3 Co-efficient).

An efficient disinfectant, germicide, insecticide and antiseptic recommended for poultry houses, kennels, barns, pet stock quarters and for household uses. Can be diluted with water or oil.

Bottles, 8 oz. 35c; pint 45c; cans, quart 65c; half gal. \$1.00; gal. \$1.75, 5 gal. \$7.50; drums, 15 gal. \$18.75, 30 gal. \$34.50, 55 gal. \$57.75 f. o. b. Portland.

WORM-O-CIDE GIZZARD KAP-

SULES. For young and adult chickens and turkeys. Worm-O-Cide Gizzard Soluble Kapsules are destructive to round, tape and pin or Ceca worms, infesting the intestinal tract of poultry. Why give a cheap capsule or pill, that will just kill one specie of worms affecting your fowls? Do the job well. Get all the worms with just one Worm-O-Cide Gizzard Soluble Kapsule. Save time, labor and annoying your fowls by continuous dosing for each specie of worms.

50 pill can \$1.00; 100 pill can \$1.75; 500 pill can \$7.00; 1000 pill can \$12.00; 2000 pill jar \$24.00 Portland.

WORM-O-FUGE.

Poultry wormer. Flock treatment for round or tape worm infesting poultry. To be fed in the chick, developing or laying mash in the regular routine of feeding. 1 lb. will treat 100 fowls 4 months of age, 125 fowls 2 to 4 months of age. Worm-O-Fuge is compounded from medicines recommended by the United States, British and German Pharmacopeia as Vermicides and Vermifuges "Worm Killers."

1 lb. pkg. \$1.00; 5 lb. pkg. \$4.50 f. o. b. Portland.

Household Fly Foil

An effective fly spray recommended for household use. Pleasant to use, is not poison and will not stain walls if properly used.

8 oz. 30c; pint 50c; quart 90c; gallon \$2.75 f. o. b. Portland.

Dairy Fly Foil

A double-acting fly spray that kills the flies on the cow in the barn and keeps flies off cows all day. Dairy Fly Foil is a thin liquid, and hardly a tablespoonful need be used for each cow. It is necessary to have a good spray pump to make a fine mist.

1 qt. 60c; ½ gal. \$1.00; 1 gal. \$1.50; 5 gals. \$6.75 f. o. b. Portland.



KOW KARE

Write for the new book, "Profit Cows"

Price, small can 65c; large cans, mailing weight 4 lbs., each \$1.25; six for \$6.25; 12 for \$12.50 f. o. b. Portland.



CUTS CALF COST

RAISES STURDY CALVES

ANFO-CALF MEAL is a cooked food that completely replaces milk in calf feeding. The cost is only about one-fourth that of milk. High in digestible fat, the addition of ANFO to skim milk makes a food very similar to whole milk. Either of the following makes a good ration for a calf: Water 1 gallon and AN-FO CALF MEAL 1 lb., or if available, skim milk 1 gallon and AN-FO CALF MEAL ½ lb.

25 lbs. \$1.35 f. o. b. Portland.

Bag Balm

Made by the Kow Kare people. For caked bag, sore teats, bunches, chapping cuts or inflamed parts. Use this soothing ointment with perfect safety. Penetrating, quick healing. Clean, pleasant to use; cannot taint the milk. Will make decidedly easier milkers of your herd.

10 oz. pkg. 60c; postage extra.

Wyandotte Sanitary Cleaner and Cleanser

A cleaner especially prepared for creamery, cheese factory and dairy purposes. It contains no grease. It makes no suds. It has no soapy smell. It is pure and purifying. It cuts the butterfats and milk solids quickly and thoroughly, making everything sweet, clean and sanitary.

3 lb. pkg. 35c; 5 lbs. 50c; 80 lb. keg \$6.00 f. o. b. Portland.



BIRD FOODS and REMEDIES

In this list you will find our own special bird foods, as well as foods and remedies of several widely advertised lines. Descriptions are limited in this space, but booklets with complete descriptions will be sent upon request.

P. S. CO. ROLLER SPECIAL BIRD SEED MIXTURE. The very finest. Put up especially for singers.
1 lb. sealed pkg. 25c; 10 oz. sealed pkg. 15c postpaid.

DIAMOND QUALITY BIRD SEED. With cuttlebone. Next to our Roller Special, the best to be secured.
1 lb. pkg. 20c; 10 oz. pkg. 15c; 10 lbs. \$1.35 postpaid.

CANARY SEED. Recleaned.
Lb. 20c; 10 lbs. \$1.50 postpaid.

HEMP SEED. Recleaned.
Lb. 20c; 10 lbs. \$1.50 postpaid.

RAPE. Sweet summer.
Lb. 20c; 10 lbs. \$1.50 postpaid.

MILLET. Recleaned.
Lb. 20c; 10 lbs. \$1.50 postpaid.

CUTTLEBONE.
Each 5c; doz. 50c postpaid.

BIRD GRAVEL.
Pkg. 15c postpaid.

BIRD MANNA.
Pkg. 20c postpaid.

NESTING HAIR.
Pkg. 25c postpaid.

BIRDOLINE. Kaempfer's.
Pkg. 20c postpaid.

CANARY HIGBALL.
Two for 30c postpaid.

SPRATT'S BIRD FOODS AND REMEDIES.
Song Restorer—30c postpaid.
Nestling Food—Large 30c; small 20c postpaid.
Bird Tonic—Small 20c; large 35c postpaid.
Bird Lice Powder (guns)—30c postpaid.
Sing Song—15c postpaid.

PARROT FOODS.
Diamond Parrot Mixture—1 lb. 25c; 2 lbs. 45c; 5 lbs. \$1.00 postpaid.
Parrot Sunflower Seed—1 lb. 20c; 5 lbs. 75c postpaid.
Spratt's Parakeet and Lovebird Mixture—1 lb. 25c postpaid.

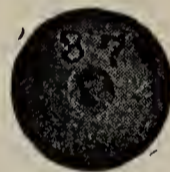
Chappell Dog Cakes
For your dog. 25 ounces for 25 cents.
Ken-L-Biskit
The Golden Cakes of Energy
Ken-L-Meal Cakes
Ken-L-Meal Medium
1 lb. 12c; 25 lb. bag \$2.75; 50 lb. bag \$5.25; 100 lb. bag \$10.00 f. o. b. Portland.

Spratt's Dog Remedies

Flea Dog Soap—25c.
Flea Dog Powder—10c and 25c.
Ascarids and Worm Caps. for Dogs—50c.
Ascarids and Worm Caps. for Puppies—50c.
Tape Worm Tablets—50c.
Distemper Tablets—75c.
Distemper Tablets for Toy Dogs and Puppies—75c.
Dog Condition Tablets—50c.
Toy Dog and Puppy Condition Tablets—50c.
Nerve Sedative Condition Tablets—50c.
Sulphur Tablets—50c.
Mange Medicine—75c.
Ear Canker Ointment—75c.
Postage extra.

CAT REMEDIES.

Spratt's Cat Worm Capsules—60c postpaid.
Cat Diarrhoea Remedy—60c postpaid.
Catnip Mice—Each 10c; postpaid 15c.



MARKERS

For Cattle, Sheep and Hogs

Your name and address on one side, number on other.

METAL EAR LABELS. Not more than ten large letters can be used on the hog and sheep size; 15 large or 22 small letters on cattle size.

	Sheep and	Hog Cattle
Prices—two sizes.		
100 with name and number	\$1.85	\$2.65
50 with name and number	1.35	1.60
25 with name and number	.90	.95
100 with name or number..	1.40	2.10
50 with name or number..	1.00	1.35
25 with name or number..	.75	.90
Oval Ear Punches—Cattle size,	\$1.65;	
sheep and hog size,	\$1.65; postage	
	10c each.	

IDEAL EAR BUTTONS. Pure aluminum hardened, medium size, suits all animals. Name and address on top side; number on bottom. Easily attached with special punch and pliers. If mailed, postage extra.

25—Mailing weight 3 ozs.....	\$ 1.50
50—Mailing weight 4 ozs.....	2.25
100—Mailing weight 12 ozs.....	3.75
500—Mailing weight 4 lbs.....	17.00
1000—Mailing weight 6 lbs.....	30.00
Punch and Pliers, each	\$1.50; postage 10c.



K-R-O Kills Rats Without Danger

A New Exterminator that is Wonderfully Effective yet Safe to Use!

K-R-O is relatively harmless to human beings, livestock, pets, poultry, yet is guaranteed to kill rats and mice every time. Many letters testify to the great merit of K-R-O. Get a can now. It's easy to use, works quickly, safely and surely. Satisfaction guaranteed. 75c; large size



RAT NIP

All rats are ravenously fond of Rat-Nip. They just can't resist it. It tempts the young and draws the wily veterans from their lairs . . . Gets every single one within 24 hours after baiting.

Price 35c postpaid

DEAD SURE RODENT DESTROYER

The High Pressure Poison Gas Cartridge positively kills gophers, squirrels, prairie dogs, moles, rats, weasels, rabbits, mice, skunks, foxes, snakes, wasps or anything that burrows in the ground.

Burns Under Water—Only poisonous when burning.

Price, dozen 60c postpaid.

"WOOD-LARK" SQUIRREL AND GOPHER POISON. Quick, certain, deadly. Exterminates squirrels, sage rats, field mice, pocket gophers, prairie dogs, crows. Use early when green food is scarce.
Price 1 lb. pkg. 50c postpaid.



MORTON'S SUGAR CURING SMOKE SALT. It improves the flavor, eliminates the smoke house, makes meat curing easy, quicker and safer. Try it.

2 1/8-lb. cans 30c each; 10-lb. cans \$1.25 each f. o. b. Portland.

LESLIE SALT. In prepared bricks. Prices f. o. b. Portland.

5 lb. bricks, each 15c.
Pet Licks for Rabbits.
Each 10c; 10 for 90c.

PLANTS

ASPARAGUS—Giant Washington. Mary Washington. 1 Year, Postpaid. Doz. 25c; 50, 60c; 100, \$1.00; 1,000, \$5.00. 2 Year. Doz. 35c; 50, 90c; 100, \$1.50; 1,000, \$6.50.

CABBAGE PLANTS—Name varieties wanted. Transplanted, postpaid Doz. 20c; 100, \$1.00; 1,000, \$7.00. Not transplanted. Doz. 10c; 100, 75c; 1,000, \$5.00.

CAULIFLOWER—Name varieties wanted. Transplanted. Doz. 25c; 100, \$1.50; 1,000, \$10.00. Not transplanted. Doz. 20c; 100, \$1.25; 1,000, \$8.00. Season April to June.

CELERY PLANTS—Name variety wanted. Transplanted, postpaid. Doz. 25c; 100, \$1.25; 1,000, \$10.00.

HOP ROOTS—Postpaid. 3 for 25c; doz. 75c; 100, \$3.50.

HORSERADISH ROOTS. 3 for 25c; doz. 50c; 100, \$2.00.

KALE 1000 HEAD. Transplanted, f. o. b. Portland. Doz. 20c; 100, \$1.25; 1,000, \$7.50. Not transplanted. Doz. 15c; 100, \$1.00; 1,000, \$6.50, f. o. b. Portland.

LETTUCE. Transplanted, postpaid. Doz. 20c; 100, \$1.00.

RHUBARB. Riverside Giant, postpaid. Each 15c; doz. \$1.25; 100, \$5.00, f. o. b. Portland.

STRAWBERRIES. Banner, New Oregon, Gold Dollar, Magoon, Marshall. Postpaid. 12 for 30c; 25 for 50c; 100 for \$1.00; 1,000 for \$7.00. Mastodon Everbearing. Postpaid. 12 for 80c; 25 for \$1.25; 100 for \$3.00. Nick Ohmer. 12 for 30c; 25 for 50c; 100 for \$1.00; 1,000 for \$8.00.

TOMATOES. Name varieties wanted. Transplanted, postpaid. Doz. 20c; 100, \$1.00; 1,000, \$8.50.

PEONIES

White Varieties

Avalanche—Large white, base yellow, few petals flecked with carmine. Each \$1.00.

Baroness Schroeder—Plume-shaped, fringed petals. Each \$1.00.

Duchess De Nemours (Calot)—Tinged sulphur. Mid-season. Each 75c.

Festiva Maxima—Large, rose type. Crimson markings in center. Each 75c.

Red Varieties

Adolph Rousseau—Semi-double. Each \$1.50.

Felix Crousse—Bomb type. Each \$1.00.

Karl Rosenfield—Semi-rose. Each \$1.00.

Louis Van Houtte—Semi-rose. Dark crimson. Each \$1.00.

Single Varieties

Albiflora—Large paper-white. Each \$1.00.

Apple Blossom—Delicate pink. Each \$2.50.

Florestine—Dark red. Each \$2.00.

New and Rare Varieties

Mons. Martin Cahuzac—Dark, purple-garnet, with black reflex, large. Each \$1.50.

Octavie Demay—Pink and white. Each \$1.00.

Reine Hortense—Hydrangea-pink. Each \$2.50.

Sarah Bernhardt—Pink. Each \$2.00.

Pink Varieties

Asa Gray—Each \$1.00.

Lady Bramwell—Each 50c.

Livingstone—Rose type. Each \$1.00.

Madame Breon—A light pink. Each \$1.00.

Triomphe De Lille—Each \$1.00.

HARDY IRIS

20c each postpaid

Afterglow—Misty lavender, yellow center.

Alcazar—Light, bluish-violet. F. deep purple, bronze, veined at throat.

Ambassadeir—Dull, purplish-bronze, deep, velvety maroon. Beards and styles yellow.

Argynnis—Late, standards yellow. Falls, velvety, dark violet-carmine paling at border.

Lent A. Williamson—Medium. Standards, broad, lavender-violet, blended yellow.

Prospero—Late. Standards, bright lavender-blue. Falls red-purple, orange beard.

Morning Splendor—Medium. Standards violet. Falls purple, orange beard.

Dream—Large rose-pink. Falls darker; bronze beard.

Gaviota—White, yellow beard.

Mrs. Cuthbertson—Midseason. Standards, soft rose. Falls crimson edged white.

Tenebrae—Late. Standards purple. Falls red-purple, orange beard.

Juniata—Early. Standard violet-blue, orange beard.

Hippolyta—Midseason. Standards, light lavender-blue. Falls, lighter shade, orange beard.

DR. L. D. Le GEAR'S REMEDIES

LE GEAR'S POULTRY PRESCRIPTION. Stimulates appetite, also a laxative.

25c, 50c and \$1.00 packages, postpaid.

GEAR'S CHICK TABLETS. Dissolve in drinking water. An intestinal astringent.

80 tablets 50c postpaid.

LE GEAR'S NICOTINE KAMALA PILLS. For round and tape worms, individual treatment. Two sizes, adult and chick.

50 pills \$1.00; 100 pills \$1.75 postpaid.

LE GEAR'S DOG REMEDIES

In each package of Dr. Le Gear's Prescriptions you will find complete directions and a valuable treatise on the treatment and care of dogs, cats and foxes.

Cod Liver Oil Concentrate Tablets.....\$0.50

Cod Liver Oil Concentrate Tablets..... 1.00

Round and Hook Worm Capsules for Small Dogs..... .50

Round and Hook Worm Capsules for Medium-Large

Dogs50

Tape Worm Tablets50

Mange Prescription (Sarcoptic)50

Tonic Condition Tablets50

Kennel Disinfectant50

Flea and Lice Powder25

Flea and Shampoo Soap25

Laxative Tablets50

Pepsin Compound Tablets50

Special Tablets (For Reducing Fever) 1.00

Nerve Sedative Tablets 1.00

Eye Lotion50

Instructions for Ordering, Etc.

PARCEL POST SHIPMENTS. For points beyond the 4th Zone include additional postage.

For insurance for over \$5.00 and less than \$10.00 send 10c additional.

Do not request C. O. D. shipments as expense of collection is too high. Send money order covering the amount of the order wherever possible as banks charge for collecting personal checks.

Stamps are acceptable for any amount less than \$1.00.

Use the order blank and return envelope. Be sure that your name and full address are filled in and that your remittance comes with the order.

Observing these instructions will expedite the filling of your orders promptly and give us less cause for making mistakes.

INDEX For your convenience the annual flower seeds and plants are in separate alphabetical lists, and vegetable seeds and plants are also listed together alphabetically. For other items see index below.

—A—		—D—	
Alfalfa Seed	22	Dahlia Bulbs	18
Antrol	26	Disinfectants	26
Artichokes	1	Dog Foods	30
Asparagus	1	Dog Remedies	30
Asparagus Plants	31	Dusters, Insecticides	25
—B—		—E—	
Bag Balm	29	Egg Plant	5
Barley	22	Endive	5
Beans	1	—F—	
Beets	1-2	Fennel	5
Bird Remedies	30	FERTILIZERS	23
Black Leaf 40	26	Flax	22
Bluestone	26	FLOWER SEEDS	11-17
Books	6	Fly Foil	29
Broccoli	3	Formaldehyde	26
Brussels Sprouts	2	—G—	
Buckwheat	22	Garden Guide	4
—C—		Garlic	5
Cabbage	2	Gooseberries	20
Calf Meal, Anfo	29	Gopher Gun	24
Carrots	3	Grapes	20
Casaba	7	Grass Seeds	21
Cauliflower	3	Grass Shears	24
Celeriac	4	—H—	
Celery	4	Herb Seeds	5
Ceresan	23	Hop Roots	31
Chard	2	Horseradish Roots	31
Cheat	23	Hotkaps	23
Chicory	3	—I—	
Chives	2	Instructions for Ordering	31
Cleaners', Clipper	21	Iris	31
Clover	22	—K—	
Coppercarb	26	Kale	6
Corn	4	Kohl-Rabi	6
Corn Salad	4	"Kow Kare"	29
Cress	2		
Cucumbers	5		
Currants	20		

—L—		—S—	
Lawn Grass	21	Salsify	9
Leeks	6	Salt, Leslie	30
Le Gear's Remedies	31	Scales, Egg	28
Lettuce	6	Seeders, Hand	24
Loganberries	20	Semesan	23
—M—		Shrubs, Deciduous	19
Markers, Stock	30	Shrubs, Evergreen	19
Millets	22	Snarol	26
Mushroom Spawn	5	Sorghums	22
Muskmelons	7	Spelt	23
Mustard Seed	6	Spinach	9
—N—		Spray Materials	26
Napthalene	26	Spray Pumps	25
Nitragin	23	Spreaders	24
—O—		Squash	10
Oats, Seed	22	Strawberry Plants	31
Okra	8	Sunflower Seed	23
Onion Sets	7	Suntex	28
Onions	7	—T—	
—P—		Tanglefoot	26
Parsley	8	Tobacco Powder, Gold Leaf	26
Parsnips	8	Tobacco Seed	9
Pasture Mixture	21	Tomatoes	10
Peas, Field	23	Traps, Rodent	24
Peas, Garden	8	Trees, Deciduous	19
Peas, Tangier	23	Trees, Fruit	20
Peonies	31	Trees, Nut	20
Peppers	8	Turnips	10
Plants, Vegetable	31	—V—	
Potatoes	8	Vegetable Plants	31
Poultry House Supplies	28	Vetch	23
Poultry Remedies	29	Vigoro	23
Poultry Supplies	27	—W—	
Pruning Tools	24	Watermelons	7
Pumpkin	9	Weeders	24
—R—		Whale Oil Soap	26
Radishes	9	Wheat, Seed	23
Rape	22	Wyandotte Cleaner	29
Raspberries	20	—Y—	
Rat Poison	30	Youngberries	20
Rhubarb	31		
Rodent Killers	30		

Planting Tables

	Quantity per acre
Artichoke, 1 oz. to 500 plants.....	6 oz.
Artichokes—White French	8 bu.
Asparagus, 1 oz. to 800 plants.....	1 lb.
Asparagus Roots	7500
Barley	2 to 2½ bu.
Beans, dwarf, 1 lb. to 100 ft. of drill.....	1 bu.
Pole, 1 lb. to 100 hills	½ bu.
Beet, Garden, 1 oz. to 100 ft. drill.....	6 to 7 lbs.
Mangel, 1 oz. to 100 ft. of drill.....	5 lbs.
Broccoli, 1 oz. to 2000 plants.....	4 oz.
Brussels Sprouts, 1 oz. to 2000 plants.....	4 oz.
Buckwheat	½ to 1 bu.
Cabbage, 1 oz. to 2000 plants	4 oz.
Carrot, ½ oz. to 100 ft. of drill	3 lbs.
Cauliflower, 1 oz. to 3000 plants	3 to 4 oz.
Celery, 1 oz. to 5000 plants	4 oz.
Cheat	2 bu.
Clover, Alsike and White	8 to 10 lbs.
Alfalfa	15 to 20 lbs.
Crimson Trefoil or Red	10 to 15 lbs.
Collards, 1 oz. to 2000 plants	4 oz.
Corn, Pop (shelled)	8 to 10 lbs.
Sweet or Field, hills	12 to 15 lbs.
For soiling drills	3 bu.
Cress, ¾ oz. to 100 ft. drill	1 lb.
Cucumber, 1 oz. to 100 hills	2 to 3 lbs.
Egg Plant, 1 oz. to 2000 plants	4 oz.
Emmer	100 lbs.
Endive, ¼ oz. to 100 ft. drill	4 lbs.
Flax broadcast	¾ bu.
Grass—Kentucky Blue, pasture	1 to 2 bu.
Kentucky Blue, lawns	100 lbs.
Meadow Fescue	1 bu.
Mixed Lawn	5 to 6 bu.
Red Top, Chaff	1 to 2 bu.
Red Top, solid seed	10 to 15 lbs.
Timothy	10 to 15 lbs.
Orchard, Perennial Rye	1 to 2 bu.
Wood Meadow	1 bu.

	Quantity per acre
Horseradish Roots	15,000 to 25,000
Kale, 1 oz. to 2000 plants	4 oz.
Kohl Rabi, 1 oz. to 2000 plants	4 oz.
Leek, 1 oz. to 100 ft. of drill.....	4 lbs.
Lettuce, 1 oz. to 150 ft. of drill	3 lbs.
Melon, Musk, 2 oz. to 100 hills.....	2 to 3 lbs.
Water, 4 oz. to 100 hills	3 to 4 lbs.
Millet—For Seed	20 lbs.
For Hay	30 lbs.
Oats	2 to 3 bu.
Okra, 1 oz. to 100 ft. of drill	8 lbs.
Onion Seed, for sets	60 to 85 lbs.
1 oz. to 150 ft. drill	3 to 4 lbs.
Onion Sets, 1 qt. to 40 ft. drill	8 bu.
Parsley, 1 oz. to 150 ft. drill	3 lbs.
Parsnips, 1 oz. to 150 ft. drill	3 lbs.
Peas, Field	2 bu.
Garden, 1 lb. to 100 ft. drill.....	1 to 2 bu.
Pepper, 1 oz. to 1000 plants	2 lbs.
Potatoes	10 bu.
Pumpkin, ½ lb. to 100 hills	3 to 5 lbs.
Radish, 1 oz. to 100 ft. drill	10 lbs.
Rape	3 to 5 lbs.
Rye	1½ to 2 bu.
Salsify, 1 oz. to 100 ft. drill	6 to 8 lbs.
Spinach, 1 oz. to 100 ft. drill.....	8 to 10 lbs.
Sunflower	8 lbs.
Squash—Summer, 4 oz. to 100 hills.....	3 lbs.
Winter, 8 oz. to 100 hills	4 lbs.
Tomato, 1 oz. to 2000 plants	4 oz.
Turnip, 1 oz. to 150 ft. drill	2 to 3 lbs.
Vetches	1½ to 2 bu.
With Grain	1 bu.
Wheat	1½ to 2 bu.

WEIGHTS OF VARIOUS ARTICLES	
	Per Bushel
Artichokes	60 lbs.
Barley	48 lbs.
Beans	60 lbs.
Buckwheat	48 lbs.
Blue Grass, Kentucky	14 lbs.
English	24 lbs.
Cheat	34 lbs.
Clover Seed	60 lbs.
Corn, shelled	56 lbs.
Emmer	40 lbs.
Flax Seed	56 lbs.
Grass Seeds (unless otherwise stated).....	14 lbs.
Hemp Seed	44 lbs.
Hungarian Millet	48 lbs.
Lawn Grass	20 lbs.
Meadow Fescue	24 lbs.
Millet	50 lbs.
Oats	32 lbs.
Onion Sets	32 lbs.
Orchard Grass	14 lbs.
Peas, smooth	60 lbs.
Peas, wrinkled	56 lbs.
Perennial Rye	20 lbs.
Potatoes	60 lbs.
Rape	60 lbs.
Rye	56 lbs.
Red Top	14 lbs.
Red Top, solid seed	42 lbs.
Timothy	45 lbs.
Vetches	70 lbs.
Wheat	60 lbs.

A NEW POLICY

We have arranged to display Diamond Quality seeds put up in 5c and 10c packets in nearly every local store in Oregon and Washington.

If your local merchant has this display of Diamond Quality seeds, we invite you to make your selections from his seed case.

You will find the same fresh seeds in this case as we send out to our mail order customers. Each year these cases are returned to us and all old seeds removed and destroyed so that your local store will always have fresh Diamond Quality seeds.

If your local store does not have Diamond Quality seeds displayed take no chances on other seeds but send us your mail order and we will give you quick satisfactory service.

WHAT IS HOME WITHOUT A GARDEN?

THE MAN WITH THE HOE SAYS—A ROW EACH OF CARROTS, BEETS, SPINACH AND RADISHES WILL PROVIDE FRESH VEGETABLES FOR THE TABLE AT LITTLE COST.

To sow small flower seeds, mix them with sand, saves much thinning.

When fall rains begin, sow wild flower seeds and poppies.

Spade in plenty of Diamond Quality sheep manure. It will repay you with fine flowers.

To prolong the blooming season cut sweet peas every day. Do not allow any pods to form.

For your green onions plant sets early thick in the row.

Do not burn the garden refuse. Bury it or spade it in for humus.

Renovate the lawn in the fall after the first rains, rake thoroughly, reseed and mulch with sheep guano.

Snails are very fond of young green plants, poison them with Snarol.

Plant a few freesias in pots in the fall for porch plants.

Spray peaches, prunes, plums with lime sulphur in December and February for curl leaf and fungus.

Know your planting seasons and ascertain the condition of your soil.

Good garden soil must contain plenty of humus to get best results.

This Free Book Tells You How to Have an All-Year Flower Garden

If you want an all-year flower garden, we recommend that you subscribe to Sunset Magazine. By special arrangement we are able to offer you the Sunset Garden Book **free** with a subscription at the regular rate of only \$1.00 for two years.

The Sunset Garden Book is just the book you need to answer all those perplexing questions of what to plant and when to plant to have flowers around your home almost every month in the year. It is an all-coast planting guide and contains numerous special notations for Washington and Oregon as well as supplementary material for the Northwest prepared by Cecil Solly, noted Seattle garden authority.

You'll like Sunset, the "How-to-do-It" Magazine. It covers the whole range of Western living from a distinctly Western angle—home beautification, home management and cooking, gardening, home building and decoration, travel and outdoor life—exactly the things that are of greatest interest to every Western home lover.

How to Get It—Send an extra dollar with your seed order and we will enter your subscription with the Publishers who will send the Sunset Garden Book direct to you and Sunset Magazine for 2 years.



PORTLAND SEED COMPANY.

Beautiful Sweet Pea Collection

Sybil Henshaw
Avalanche
Olympia
Ascot
Good Cheer
Warrior
Austin Frederick

7 Packets for
50 Cts.
Postpaid.

ROSE COLLECTION

Edward Mawley—
Red.
Irish Elegance—
Yellow.
La France—Pink.
Ophelia—Salmon
Pink.
Frau Karl Druschki—
White.
General Jacqueminot
—Crimson.

\$2.00 VALUE
for \$1.76
Postpaid.

JAPANESE IRIS

Angel's Den—Six
petals, vinous-
purple.
Ayasi—Three petals,
white center, crim-
son edge.
Kuro Kumo—Six
petals, purple.
Shoryui—Three
petals, white.
Cloud Dress—Six
petals, grey, purple
lines.
Kagarabi—Three
petals, light laven-
der.

3 FOR \$1.00
6 FOR \$1.75
Postpaid.



PEONIES

A
BEAUTIFUL
COLLECTION

Avalanche—White.
Duchess De Nemours
Yellow.
Felix Crouse—Red.
Karl Rosenfield—
Semi-rose.
Octavie Demay—
Pink-white.
Sarah Bernhardt—
Pink.

\$6.75 VALUE
FOR \$4.99
Postpaid.

DAHLIA COLLECTION

Alice Whittier—Primrose
yellow.....\$0.50
Chemar's Masterpiece—
Orchid pink.....1.00
Mrs. Edna Spencer—
Lavender pink.... .35
Ballet Girl—Orange. .50
Early William—
Scarlet......50
Jane Cowl—
Old Gold......50

COLLECTION OF
6 CHOICE DAHLIAS
\$3.35 VALUE
FOR \$2.76

Gladiolus Collection

Evelyn Kirkland—
Pink.
Dr. F. E. Bennett—
Red.
Capt. Boynton—
Lavender.
Duchess of York—
Blue.
Sunnymede—
Yellow.
Fern Kyle—
White.

2 OF EACH
12 for 49 Cts.
Postpaid.

Look for the Diamond Display Rack

It is your assurance of quality when buying seeds
For DIAMOND QUALITY SEEDS produce bountiful crops